



# SCREEN PRINTING INKS

**Table of Inks  
and Substrates**

# UV Inks

## Product Information

|                         | Ultra Pack LEDC    | Ultra Graph UVAR       | Ultra Board UVBR           | Ultra Pack UVC                             | Ultra Card UVCC                  | Ultra Form UVFM                        | Ultra Pack UVFP        | Ultra Glass UVGL                             | Ultra Glass UVGO       | Ultra Pack UVGX        |
|-------------------------|--------------------|------------------------|----------------------------|--------------------------------------------|----------------------------------|----------------------------------------|------------------------|----------------------------------------------|------------------------|------------------------|
| Ink System              | LED                | UV                     | UV                         | UV                                         | UV                               | UV                                     | UV                     | UV 2C                                        | UV 2C                  | UV                     |
| Drying                  | very fast          | fast                   | fast                       | very fast                                  | fast                             | slow                                   | medium fast            | fast                                         | fast                   | fast                   |
| Degree of Gloss         | high gloss         | glossy                 | satin gloss                | glossy                                     | satin gloss                      | glossy                                 | high gloss             | glossy                                       | high gloss             | satin gloss            |
| Opacity                 | medium             | medium                 | medium                     | medium                                     | medium                           | medium                                 | medium                 | medium                                       | medium                 | medium                 |
| Outdoor Resistance      | short-term         | medium-term            | medium-term                | short-term                                 | medium-term                      | long-term                              | short-term             | short-term                                   | short-term             | short-term             |
| Special Characteristics | universal use      | flexible               | very good print definition | universal application, resistant           | suitable for lamination          | universal application, vacuum formable | low migration          | dishwasher resistant                         | dishwasher resistant   | low-odour              |
| Basic Shades            | 13                 | 13                     | -                          | 13                                         | -                                | 13                                     | 13                     | 13                                           | 13                     | 13                     |
| 4-Clr Process           | -                  | 8                      | 4                          | 4                                          | -                                | 4                                      | -                      | 4                                            | -                      | 4                      |
| Others                  | 9                  | 5                      | 1                          | 14                                         | 9                                | 5                                      | 4                      | 21                                           | 3                      | 4                      |
| Specials                | High-Opaque Shades | Opaque White and Black | -                          | High-Opaque Shades, Opaque White and Black | Opaque White, Press-ready Silver | Opaque White and Black                 | Opaque White and Black | Etch Imitations, High-Opaque Shades, Primers | Opaque White and Black | Opaque White and Black |

## Auxiliaries

|                            |               |              |             |               |              |              |          |               |          |             |
|----------------------------|---------------|--------------|-------------|---------------|--------------|--------------|----------|---------------|----------|-------------|
| Thinner                    | UVV 1         | UVV 6        | UVV 2       | UVV 1/3       | UVV 1/3/5    | UVV 6        | -        | UVV 6         | UVV 6    | UVV 2/3     |
| Thinner (more flexibility) | -             | -            | UVV 6       | -             | -            | -            | -        | -             | -        | UVV 6       |
| Adhesion Modifier (Metal)  | -             | -            | -           | -             | -            | -            | -        | -             | -        | -           |
| Adhesion Modifier (Glass)  | -             | -            | -           | -             | -            | -            | -        | UV-HV 8       | UV-HV 8  | -           |
| Adhesion Modifier (other)  | -             | -            | -           | -             | -            | -            | -        | -             | -        | -           |
| Accelerator (depth cure)   | UV-B 1/4      | UV-B 1       | UV-B 1      | UV-B 1        | -            | -            | -        | UV-B 1        | -        | UV-B 1      |
| Accelerator (surface cure) | UV-B 5        | UV-B 5       | UV-B 5      | UV-B 5        | -            | -            | -        | -             | -        | UV-B 5      |
| Hardener                   | H 3           | -            | -           | H 3           | -            | -            | -        | -             | -        | H 2         |
| Varnish/Clear              | LEDC 904      | UVAR 904/910 | -           | UVC 904/910   | UVCC 902/904 | UVFM 904/910 | UVFP 904 | UVGL 904      | UVGO 910 | UVGX 904    |
| Transparent Base           | -             | UVAR 409     | UVBR 409    | UVC 409       | -            | UVFM 409     | -        | UVGL 409      | -        | UVGX 409    |
| Thickening Agent           | UV-TA 1       | STM          | STM/UV-TA 1 | STM/UV-TA 1   | -            | -            | -        | -             | -        | STM/UV-TA 1 |
| Levelling Agent            | UV-VM/UV-SA 1 | UV-VM        | UV-VM       | UV-VM/UV-SA 1 | -            | UV-VM        | -        | UV-VM/UV-HS 1 | -        | UV-VM       |
| Cleaner                    | UR 3/4/5      | UR 3/4/5     | UR 3/4/5    | UR 3/4/5      | UR 3/4/5     | UR 3/4/5     | UR 4/5   | UR 3/4/5      | UR 3/4/5 | UR 3/4/5    |

## Substrates

|                                     | Ultra Pack LEDC    | Ultra Graph UVAR        | Ultra Board UVBR        | Ultra Pack UVC                               | Ultra Card UVCC | Ultra Form UVFM                      | Ultra Pack UVFP    | Ultra Glass UVGL                      | Ultra Glass UVGO                      | Ultra Pack UVGX         |
|-------------------------------------|--------------------|-------------------------|-------------------------|----------------------------------------------|-----------------|--------------------------------------|--------------------|---------------------------------------|---------------------------------------|-------------------------|
| ABS/SAN                             |                    | ✓                       |                         |                                              |                 | ✓                                    |                    |                                       |                                       |                         |
| Acrylic Glass (PMMA)                |                    |                         |                         |                                              |                 | ✓                                    |                    |                                       |                                       |                         |
| Anodised Aluminium                  |                    |                         |                         |                                              |                 |                                      |                    | ✓ 🔥 HV                                | ✓ 🔥 HV                                |                         |
| Glass, Ceramics                     |                    |                         |                         |                                              |                 |                                      |                    | ✓ HV                                  | ✓ HV 🔥                                |                         |
| Metals                              |                    |                         |                         |                                              |                 |                                      |                    | ✓ 🔥 HV                                | ✓ 🔥 HV                                |                         |
| Paper, corrugated Cardboard         |                    | ✓                       | ✓                       |                                              |                 | ✓                                    |                    |                                       |                                       |                         |
| PETG, PETA                          | ✓ (PETG)           | ✓ (PETG)                |                         | ✓ (PETG)                                     |                 | ✓ (PETG)                             |                    |                                       |                                       |                         |
| Polyactide (PLA)                    |                    |                         |                         |                                              | ✓               |                                      |                    |                                       |                                       |                         |
| Polyamide (PA)                      |                    |                         |                         | ✓ H                                          |                 |                                      |                    |                                       |                                       |                         |
| Polycarbonate (PC)                  | ✓                  | ✓                       |                         | ✓                                            |                 | ✓                                    |                    |                                       |                                       |                         |
| Polyester Foil, coated              |                    |                         |                         |                                              |                 |                                      |                    |                                       |                                       |                         |
| Polyethylene (PE), pre-treated      | ✓                  |                         |                         | ✓                                            |                 |                                      | ✓                  |                                       |                                       | ✓                       |
| Polypropylene (PP), pre-treated     | ✓                  | ✓                       |                         | ✓                                            |                 | ✓                                    | ✓                  |                                       |                                       | ✓                       |
| Polypropylene (PP), un-treated      |                    |                         |                         |                                              |                 |                                      |                    |                                       |                                       |                         |
| Polystyrene (PS)                    | ✓                  | ✓                       | ✓                       | ✓                                            |                 | ✓                                    |                    |                                       |                                       | ✓                       |
| PVC, self-adhesive foil             |                    | ✓                       | ✓                       | ✓                                            |                 | ✓                                    |                    |                                       |                                       | ✓                       |
| PVC, rigid                          | ✓                  | ✓                       | ✓                       | ✓                                            | ✓               | ✓                                    |                    |                                       |                                       | ✓                       |
| PVC, soft                           |                    |                         | ✓                       |                                              |                 |                                      |                    |                                       |                                       |                         |
| Textiles, Cotton                    |                    |                         |                         |                                              |                 |                                      |                    |                                       |                                       |                         |
| Textiles, Synthetics                |                    |                         |                         |                                              |                 |                                      |                    |                                       |                                       |                         |
| Thermosetting Plastics              |                    |                         |                         |                                              |                 |                                      |                    |                                       |                                       |                         |
| Traffic Sign Foil, retro-reflective |                    |                         |                         |                                              |                 |                                      |                    |                                       |                                       |                         |
| Varnished Surfaces                  |                    |                         |                         |                                              |                 |                                      |                    | ✓ 🔥 HV                                | ✓ 🔥 HV                                |                         |
| Wood                                |                    |                         |                         |                                              |                 |                                      |                    |                                       |                                       |                         |
| Typical or additional Application   | Container Printing | Graphic Screen Printing | Graphic Screen Printing | Container Printing, Label Printing (flatbed) | Identity Cards  | Vacuum formed parts, Backlit Signage | Container Printing | Packaging, Restaurant, and Flat Glass | Packaging, Restaurant, and Flat Glass | Graphic Screen Printing |

✓ = suitable    ✓ = limited suitability    🔥 = pre-treatment by flame or Corona    🔥 = post-treatment by flame, hot air, or oven drying    H = with hardener    HV = adhesion modifier

# UV Inks

## Product Information

|                         | Ultra Pack UVK+              | Ultra Disc UVOD    | Ultra Plus UVP         | Ultra Pack UVPHR       | Ultra RotaScreen UVRS        | Ultra Star UVS         | Ultra RotaScreen UVSF                     | Ultra Star-M UVSM | Ultra Graph UVSP           | Ultra Switch UVSW         |
|-------------------------|------------------------------|--------------------|------------------------|------------------------|------------------------------|------------------------|-------------------------------------------|-------------------|----------------------------|---------------------------|
| Ink System              | UV                           | UV                 | UV                     | UV                     | UV                           | UV                     | UV                                        | UV                | UV                         | UV                        |
| Drying                  | very fast                    | very fast          | fast                   | very fast              | very fast                    | fast                   | very fast                                 | fast              | fast                       | fast                      |
| Degree of Gloss         | high gloss                   | high gloss         | high gloss             | high gloss             | high gloss                   | high gloss             | high gloss                                | matt              | high gloss                 | glossy                    |
| Opacity                 | medium                       | medium             | medium                 | medium                 | medium                       | medium                 | medium                                    | high              | medium                     | medium                    |
| Outdoor Resistance      | short-term                   | short-term         | medium-term            | short-term             | short-term                   | long-term              | short-term                                | medium-term       | medium-term                | medium-term               |
| Special Characteristics | resistant to water and steam | optimized rheology | chemically resistant   | high-reactive          | for rotary screen printing   | universal use          | silicone-free, for rotary screen printing | matt surface      | very good print definition | flexible, can be embossed |
| Basic Shades            | 13                           | 13                 | 13                     | 13                     | 13                           | 13                     | -                                         | 13                | 13                         | 13                        |
| 4-Clr Process           | -                            | 4                  | -                      | -                      | -                            | -                      | -                                         | -                 | 4                          | -                         |
| Others                  | 4                            | 14                 | 3                      | 4                      | 6                            | 3                      | 5                                         | 4                 | 4                          | 5                         |
| Specials                | Opaque White and Black       | Fluorescent Shades | Opaque White and Black | Opaque White and Black | Opaque White, Relief Varnish | Opaque White and Black | Opaque White                              | Opaque Black      | Opaque White and Black     | Window Varnishes          |

## Auxiliaries

|                            |               |                  |           |               |              |           |              |          |             |                  |
|----------------------------|---------------|------------------|-----------|---------------|--------------|-----------|--------------|----------|-------------|------------------|
| Thinner                    | UVV 3         | UVV 1/2          | UVV 2     | UVV 3         | UVV 5        | UVV 2     | UVV 5*       | UVV 2    | UVV 1/2     | UVV 6            |
| Thinner (more flexibility) | -             | -                | -         | UVV 6         | -            | -         | UVV 6*       | -        | -           | -                |
| Adhesion Modifier (Metal)  | -             | -                | UV-HV 1/4 | -             | -            | -         | -            | -        | -           | -                |
| Adhesion Modifier (Glass)  | -             | -                | UV-HV 7   | -             | -            | -         | -            | -        | -           | -                |
| Adhesion Modifier (other)  | -             | -                | -         | -             | -            | UV-HV 1/4 | -            | UV-HV 4  | -           | -                |
| Accelerator (depth cure)   | UV-B 1        | -                | UV-B 1    | UV-B 1        | -            | UV-B 1    | -            | UV-B 1   | UV-B 1      | UV-B 1           |
| Accelerator (surface cure) | -             | -                | -         | -             | -            | UV-B 2    | -            | -        | UV-B 5      | -                |
| Hardener                   | H 3           | -                | -         | H 3           | -            | -         | -            | H 1      | -           | -                |
| Varnish/Clear              | UVK+ 904      | UVOD 904/912/914 | UVP 904   | UVPHR 910/904 | UVRS 910/904 | UVS 904   | UVSF 910/904 | UVSM 904 | UVSP 910    | UVSW 904/912/913 |
| Transparent Base           | -             | UVOD 409         | -         | -             | -            | -         | -            | UVSM 409 | UVSP 409    | -                |
| Thickening Agent           | STM/UV-TA 1   | STM              | STM       | STM           | UV-TA 1      | STM       | STM          | STM      | STM/UV-TA 1 | UV-TA 1          |
| Levelling Agent            | UV-VM/UV-SA 1 | UV-VM            | UV-VM     | UV-VM/UV-SA 1 | UV-VM        | UV-VM     | -            | UV-VM    | UV-VM       | -                |
| Cleaner                    | UR3/4/5       | UR3/4/5          | UR3/4/5   | UR3/4/5       | UR3/4/5      | UR3/4/5   | UR4/5        | UR3/4/5  | UR3/4/5     | UR3/4/5          |

## Substrates

|                                     | Ultra Pack UVK+                | Ultra Disc UVOD          | Ultra Plus UVP             | Ultra Pack UVPHR   | Ultra RotaScreen UVRS | Ultra Star UVS          | Ultra RotaScreen UVSF | Ultra Star-M UVSM       | Ultra Graph UVSP        | Ultra Switch UVSW |
|-------------------------------------|--------------------------------|--------------------------|----------------------------|--------------------|-----------------------|-------------------------|-----------------------|-------------------------|-------------------------|-------------------|
| ABS/SAN                             |                                |                          | ✓                          |                    |                       |                         |                       |                         |                         |                   |
| Acrylic Glass (PMMA)                |                                |                          | ✓ HV                       |                    |                       |                         |                       |                         |                         |                   |
| Anodised Aluminium                  |                                |                          | ✓ HV                       |                    |                       |                         |                       |                         |                         |                   |
| Glass, Ceramics                     |                                |                          | ✓ (Glass)                  |                    |                       |                         |                       |                         |                         |                   |
| Metals                              |                                |                          | ✓ HV                       |                    |                       |                         |                       |                         |                         |                   |
| Paper, corrugated Cardboard         |                                |                          |                            |                    | ✓                     | ✓                       | ✓                     | ✓                       | ✓                       |                   |
| PETG, PETA                          |                                |                          | ✓ HV                       | ✓                  |                       |                         |                       |                         | ✓ (PETG)                |                   |
| Polyactide (PLA)                    |                                |                          |                            |                    |                       |                         |                       |                         |                         |                   |
| Polyamide (PA)                      |                                |                          |                            |                    |                       |                         |                       |                         |                         |                   |
| Polycarbonate (PC)                  |                                | ✓                        | ✓                          |                    |                       |                         |                       | ✓                       | ✓                       | ✓                 |
| Polyester Foil, coated              |                                |                          |                            |                    | ✓                     | ✓                       | ✓                     | ✓                       |                         | ✓                 |
| Polyethylene (PE), pre-treated      | ✓                              |                          | ✓ HV                       | ✓                  | ✓                     | ✓                       | ✓                     | ✓ HV                    |                         |                   |
| Polypropylene (PP), pre-treated     | ✓                              |                          | ✓ HV                       | ✓                  | ✓                     | ✓                       | ✓                     | ✓ HV                    |                         |                   |
| Polypropylene (PP), un-treated      |                                |                          |                            |                    |                       |                         |                       |                         |                         |                   |
| Polystyrene (PS)                    |                                |                          | ✓                          |                    |                       |                         |                       | ✓                       | ✓                       |                   |
| PVC, self-adhesive foil             |                                |                          | ✓                          |                    | ✓                     | ✓                       | ✓                     | ✓                       |                         |                   |
| PVC, rigid                          |                                |                          | ✓                          |                    |                       | ✓                       |                       | ✓                       | ✓                       |                   |
| PVC, soft                           |                                |                          |                            |                    |                       | ✓                       |                       |                         |                         |                   |
| Textiles, Cotton                    |                                |                          |                            |                    |                       |                         |                       |                         |                         |                   |
| Textiles, Synthetics                |                                |                          |                            |                    |                       |                         |                       |                         |                         |                   |
| Thermosetting Plastics              |                                |                          |                            |                    |                       |                         |                       |                         |                         |                   |
| Traffic Sign Foil, retro-reflective |                                |                          |                            |                    |                       |                         |                       |                         |                         |                   |
| Varnished Surfaces                  |                                |                          | ✓ HV                       |                    |                       |                         |                       |                         |                         |                   |
| Wood                                |                                |                          |                            |                    |                       |                         |                       |                         |                         |                   |
| Typical or additional Application   | Container Printing, Cartridges | All Optical Disc Formats | Industrial Screen Printing | Container Printing | Label Printing        | Graphic Screen Printing | Label Printing        | Graphic Screen Printing | Graphic Screen Printing | Membran Switches  |

✓ = suitable    ✓ = limited suitability    💧 = pre-treatment with PLR    HV = adhesion modifier    \*not suitable for UVSF 174

# Solvent Based Inks

| Product Information                 | Mara® Flex<br>FX                    | Mara® Gloss<br>GO                  | Mara® Glow<br>GW                               | Mara® Cure<br>HY                    | Libra Gloss<br>LIG         | Libra Matt<br>LIM             | Libra Print<br>LIP                           | Libra Speed<br>LIS                   | Mara® Chrome<br>MC            |
|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------------------|-------------------------------------|----------------------------|-------------------------------|----------------------------------------------|--------------------------------------|-------------------------------|
| Ink System                          | solvent, 1C/2C                      | solvent, 1C                        | solvent, 1C                                    | solvent, 2C                         | solvent, 1C                | solvent, 1C                   | solvent, 1C                                  | solvent, 1C                          | solvent, 1C                   |
| Drying                              | fast                                | medium                             | fast                                           | very fast, hybrid                   | fast                       | fast                          | fast                                         | very fast                            | medium                        |
| Degree of Gloss                     | satin gloss                         | glossy                             | matt                                           | high gloss, satin gloss             | glossy                     | matt                          | glossy                                       | glossy                               | glossy                        |
| Opacity                             | medium                              | high                               | high                                           | transparent                         | medium                     | high                          | medium                                       | medium                               | medium                        |
| Outdoor Resistance                  | medium-term                         | medium-term                        | long-term                                      | medium-term                         | medium-term                | medium-term                   | medium-term                                  | long-term                            | long-term                     |
| Special Characteristics             | suitable for lamination             | flexible ink film, vacuum formable | low-odour, long- and short-term phosphorescent | highest resistance                  | very mild, vacuum formable | matt ink film, low-odour      | very good printability, vacuum formable      | vacuum formable, blocking resistant  | mirror ink for second surface |
| Basic Shades                        | 17                                  | 21                                 | -                                              | -                                   | 21                         | 17                            | 17                                           | 21                                   | -                             |
| 4-Clr Process                       | -                                   | -                                  | -                                              | -                                   | 4                          | -                             | 4                                            | 4                                    | -                             |
| Other                               | 10                                  | 7                                  | 3                                              | 2                                   | 11                         | 6                             | 3                                            | 22                                   | 1                             |
| Specials                            | Metallic Mixing System, Offset Base | Fluorescent Shades                 | Long- and Short-Term Phosphorescents           | HY 911/914                          | PANTONE® Basic Shades      | Block-Out Silver, Offset Base | Higher Density 4Clr. Process, Flexible White | PANTONE®, High Fade Resistant Shades | Mirror Silver                 |
| <b>Auxiliaries</b>                  |                                     |                                    |                                                |                                     |                            |                               |                                              |                                      |                               |
| Thinner                             | UKV 1                               | QNV                                | UKV 2                                          | PV                                  | LIGV/UKV 2                 | UKV 2                         | UKV 2                                        | UKV 1/UKV 2                          | PLR                           |
| Thinner, mild                       | UKV 2                               | -                                  | -                                              | -                                   | PSV                        | -                             | PSV                                          | PSV                                  | -                             |
| Thinner, fast                       | -                                   | 7037                               | UKV 1                                          | -                                   | PSV                        | 7037                          | PSV                                          | 7037                                 | -                             |
| Retarder                            | SV 5                                | SV 1                               | SV 1                                           | -                                   | SV 1                       | SV 1                          | SV 5                                         | SV 1                                 | -                             |
| Retarder, slow                      | SV 10                               | SV 9                               | -                                              | -                                   | SV 9                       | SV 9                          | SV 10                                        | SV 10/SV 12                          | -                             |
| Retarder Paste                      | -                                   | VP                                 | -                                              | -                                   | VP                         | VP                            | VP                                           | VP                                   | -                             |
| Hardener                            | H 4                                 | -                                  | -                                              | H 1                                 | -                          | -                             | -                                            | -                                    | -                             |
| Hardener, fast                      | -                                   | -                                  | -                                              | -                                   | -                          | -                             | -                                            | -                                    | -                             |
| Varnish/Bronze Binder               | FX 910/903/904                      | GO 910                             | -                                              | HY 911/914                          | LIG 910                    | LIM 910                       | LIP 910                                      | LIS 910/911                          | -                             |
| Transparent Base                    | -                                   | -                                  | -                                              | -                                   | LIG 409                    | LIM 409                       | LIP 409                                      | LIS 409                              | -                             |
| Thickening Agent                    | -                                   | -                                  | -                                              | -                                   | -                          | -                             | -                                            | -                                    | -                             |
| Levelling Agent                     | -                                   | ES/SA 1                            | ES/SA 1                                        | -                                   | ES/SA 1                    | ES/SA 1                       | ES/SA 1                                      | ES/SA 1                              | -                             |
| Cleaner                             | UR3/4/5                             | UR3/4/5                            | UR3/4/5                                        | UR3/4/5                             | UR3/4/5                    | UR3/4/5                       | UR3/4/5                                      | UR3/4/5                              | UR4                           |
| <b>Substrates</b>                   |                                     |                                    |                                                |                                     |                            |                               |                                              |                                      |                               |
| ABS/SAN                             | ✓                                   |                                    | ✓                                              | ✓                                   | ✓                          |                               | ✓                                            | ✓                                    |                               |
| Acrylic Glass (PMMA)                |                                     | ✓                                  | ✓                                              | ✓                                   | ✓                          | ✓                             | ✓                                            | ✓                                    | ✓                             |
| Anodised Aluminium                  |                                     |                                    |                                                |                                     |                            |                               |                                              |                                      |                               |
| Glass, Ceramics                     |                                     |                                    |                                                |                                     |                            |                               |                                              |                                      | ✓                             |
| Metals                              |                                     |                                    |                                                |                                     |                            |                               |                                              |                                      |                               |
| Paper, corrugated Board             |                                     | ✓                                  | ✓                                              |                                     | ✓                          | ✓                             | ✓                                            | ✓                                    |                               |
| PETG, PETA                          |                                     | ✓                                  |                                                |                                     |                            |                               | ✓ (PETG)                                     |                                      | ✓                             |
| Polyactide (PLA)                    |                                     |                                    |                                                |                                     |                            |                               |                                              |                                      |                               |
| Polyamide (PA)                      |                                     |                                    |                                                |                                     |                            |                               |                                              |                                      |                               |
| Polycarbonate (PC)                  |                                     | ✓                                  | ✓                                              | ✓                                   | ✓                          | ✓                             | ✓                                            | ✓                                    | ✓                             |
| Polyester Foil, coated              |                                     |                                    |                                                |                                     |                            | ✓                             |                                              |                                      | ✓                             |
| Polyethylene (PE), pre-treated      |                                     |                                    |                                                |                                     |                            |                               |                                              |                                      |                               |
| Polypropylene (PP), pre-treated     |                                     |                                    |                                                |                                     |                            |                               |                                              |                                      |                               |
| Polypropylene (PP), un-treated      |                                     |                                    |                                                |                                     |                            |                               |                                              |                                      |                               |
| Polystyrene (PS)                    |                                     |                                    | ✓                                              |                                     | ✓                          | ✓                             | ✓                                            | ✓                                    |                               |
| PVC, self-adhesive foil             |                                     | ✓                                  | ✓                                              |                                     | ✓                          | ✓                             | ✓                                            | ✓                                    |                               |
| PVC, rigid                          | ✓                                   | ✓                                  | ✓                                              | ✓                                   | ✓                          | ✓                             | ✓                                            | ✓                                    |                               |
| PVC, soft                           |                                     | ✓💧                                 |                                                |                                     |                            | ✓💧                            | ✓💧                                           |                                      |                               |
| Textiles, Cotton                    |                                     |                                    |                                                |                                     |                            |                               |                                              |                                      |                               |
| Textiles, Synthetics                |                                     |                                    |                                                |                                     |                            |                               |                                              |                                      |                               |
| Thermosetting Plastics              |                                     |                                    |                                                |                                     |                            |                               |                                              |                                      |                               |
| Traffic Sign Foil, retro-reflective |                                     |                                    |                                                |                                     |                            |                               |                                              |                                      |                               |
| Varnished Surfaces                  |                                     |                                    |                                                |                                     |                            |                               |                                              |                                      |                               |
| Wood                                |                                     | ✓                                  |                                                |                                     | ✓                          |                               | ✓                                            |                                      |                               |
| Typical or additional Application   | Identity Cards                      | Graphic Screen Printing            | Glow-in-the-dark Applications                  | high resistant Automotive Varnishes | Graphic Screen Printing    | Automotive                    | Graphic Screen Printing                      | Acrylic Signs, Backlit Signage       | Displays and Glass Decoration |

✓ = suitable    ✓ = limited suitability    💧 = pre-treatment with PLR    🔥 = post-treatment by flame, hot air, or oven drying

# Solvent Based Inks

| Product Information                 | Mara® Glass MGHT             | Mara® Glass MGL                                | Mara® Glass MGLA        | Mara® Tech MGO                          | Mara® Panel MPA                                | Mara® Mold MPC                        | Mara® Switch MSW                       | Mara® Poly P                | Mara® Plan PL               |
|-------------------------------------|------------------------------|------------------------------------------------|-------------------------|-----------------------------------------|------------------------------------------------|---------------------------------------|----------------------------------------|-----------------------------|-----------------------------|
| Ink System                          | solvent, 1C                  | solvent, 2C                                    | solvent, 2C             | solvent, 1C                             | solvent, 1C/2C                                 | solvent, 1C/2C                        | solvent, 1C                            | solvent, 2C                 | solvent, 1C                 |
| Drying                              | fast                         | fast                                           | fast                    | fast                                    | fast                                           | fast                                  | fast                                   | fast                        | fast                        |
| Degree of Gloss                     | satin gloss                  | high gloss                                     | glossy                  | high gloss                              | satin gloss                                    | satin gloss                           | satin gloss                            | high gloss                  | satin gloss                 |
| Opacity                             | high                         | medium                                         | very high               | high                                    | high                                           | medium                                | high                                   | high                        | high                        |
| Outdoor Resistance                  | medium-term                  | -                                              | long-term               | medium-term                             | -                                              | medium-term                           | medium-term                            | long-term                   | long-term                   |
| Special Characteristics             | temperature-resistant        | silicone-free, dishwasher resistant            | suitable for lamination | high chemical resistance                | high resistance against humidity and chemicals | high temperature-resistant            | flexible, can be embossed, mild odour  | high alkaline resistance    | plasticiser resistant       |
| Basic Shades                        | -                            | 16                                             | -                       | 17                                      | -                                              | 17                                    | 17                                     | 17                          | 13                          |
| 4-Clr Process                       | -                            | -                                              | -                       | -                                       | -                                              | -                                     | -                                      | -                           | -                           |
| Other                               | 3                            | 23                                             | 2                       | 3                                       | 2                                              | 2                                     | 17                                     | 3                           | 3                           |
| Specials                            | Opaque White and Black       | Etch Imitations, High-Opaque Shades, Metallics | Opaque White and Black  | High-Opaque Shades, Overprint Varnish   | Opaque White and Black                         | Press-ready Silver, Overprint Varnish | High-Opaque Shades, Press-ready Silver | Overprint Varnishes         | Press-ready Silver and Gold |
| <b>Auxiliaries</b>                  |                              |                                                |                         |                                         |                                                |                                       |                                        |                             |                             |
| Thinner                             | GLV/YV                       | MGLV                                           | PV                      | GLV/TPV/TPV 9                           | UKV 2                                          | UKV 1                                 | UKV 2                                  | PV                          | PLV                         |
| Thinner, mild                       | -                            | -                                              | -                       | -                                       | -                                              | -                                     | -                                      | -                           | -                           |
| Thinner, fast                       | -                            | -                                              | -                       | TPV 2                                   | -                                              | -                                     | -                                      | -                           | 7037                        |
| Retarder                            | -                            | SV 11                                          | SV 1                    | -                                       | SV 5                                           | SV 1                                  | SV 5                                   | SV 5                        | -                           |
| Retarder, slow                      | SV 3                         | -                                              | -                       | SV 3                                    | -                                              | SV 10                                 | SV 10                                  | SV 10                       | -                           |
| Retarder Paste                      | -                            | -                                              | -                       | -                                       | -                                              | -                                     | VP                                     | -                           | -                           |
| Hardener                            | -                            | MGLH                                           | HT 1/UV-HV 7            | -                                       | H 1/H 4                                        | H 1                                   | -                                      | H 1                         | -                           |
| Hardener, fast                      | -                            | -                                              | -                       | -                                       | -                                              | -                                     | -                                      | -                           | -                           |
| Varnish/Bronze Binder               | MGHT 910                     | MGL 910                                        | -                       | MGO 910                                 | -                                              | MPC 910                               | MSW 904/910                            | P 910/911/913               | -                           |
| Transparent Base                    | -                            | -                                              | -                       | -                                       | -                                              | -                                     | -                                      | -                           | -                           |
| Thickening Agent                    | STM                          | -                                              | -                       | STM                                     | -                                              | -                                     | -                                      | -                           | -                           |
| Levelling Agent                     | ES                           | VM 2/SA 1                                      | VM 1                    | ES                                      | ES                                             | -                                     | ES                                     | VM 2/SA 1                   | SA 1                        |
| Cleaner                             | UR 3/4/5                     | UR 3/4/5                                       | UR 3/4/5                | UR 4/5                                  | UR 3/4/5                                       | UR 3/4/5                              | UR 3/4/5                               | UR 3/4/5                    | UR 3/4/5                    |
| <b>Substrates</b>                   |                              |                                                |                         |                                         |                                                |                                       |                                        |                             |                             |
| ABS/SAN                             |                              |                                                |                         |                                         |                                                |                                       | ✓                                      |                             |                             |
| Acrylic Glass (PMMA)                |                              |                                                |                         |                                         | ✓                                              |                                       | ✓                                      |                             |                             |
| Anodised Aluminium                  |                              | ✓💧                                             |                         | ✓💧🔥                                     |                                                |                                       |                                        |                             |                             |
| Glass, Ceramics                     | ✓                            | ✓🔥                                             | ✓                       | ✓🔥                                      |                                                |                                       |                                        |                             |                             |
| Metals                              |                              | ✓💧                                             |                         | ✓💧🔥                                     |                                                |                                       |                                        |                             |                             |
| Paper, corrugated Board             |                              |                                                |                         |                                         |                                                |                                       |                                        |                             |                             |
| PETG, PETA                          |                              |                                                |                         |                                         |                                                |                                       | ✓ (PETG)                               |                             |                             |
| Polyactide (PLA)                    |                              |                                                |                         |                                         |                                                |                                       |                                        |                             |                             |
| Polyamide (PA)                      |                              |                                                |                         |                                         |                                                |                                       |                                        | ✓                           |                             |
| Polycarbonate (PC)                  |                              |                                                |                         |                                         | ✓                                              | ✓                                     | ✓                                      |                             |                             |
| Polyester Foil, coated              |                              |                                                |                         |                                         |                                                |                                       | ✓                                      |                             |                             |
| Polyethylene (PE), pre-treated      |                              |                                                |                         |                                         |                                                |                                       |                                        | ✓                           |                             |
| Polypropylene (PP), pre-treated     |                              |                                                |                         |                                         |                                                |                                       |                                        | ✓                           |                             |
| Polypropylene (PP), un-treated      |                              |                                                |                         |                                         |                                                |                                       |                                        |                             |                             |
| Polystyrene (PS)                    |                              |                                                |                         |                                         |                                                |                                       | ✓                                      |                             |                             |
| PVC, self-adhesive foil             |                              |                                                |                         |                                         |                                                |                                       | ✓                                      |                             |                             |
| PVC, rigid                          |                              |                                                |                         |                                         |                                                |                                       | ✓                                      | ✓                           |                             |
| PVC, soft                           |                              |                                                |                         |                                         |                                                |                                       |                                        |                             | ✓💧                          |
| Textiles, Cotton                    |                              |                                                |                         |                                         |                                                |                                       |                                        |                             |                             |
| Textiles, Synthetics                |                              |                                                |                         |                                         |                                                |                                       |                                        |                             |                             |
| Thermosetting Plastics              |                              |                                                |                         |                                         |                                                |                                       |                                        |                             |                             |
| Traffic Sign Foil, retro-reflective |                              |                                                |                         |                                         |                                                |                                       |                                        |                             |                             |
| Varnished Surfaces                  |                              | ✓💧                                             |                         | ✓💧🔥                                     |                                                |                                       |                                        | ✓💧                          |                             |
| Wood                                |                              |                                                |                         |                                         |                                                |                                       |                                        |                             |                             |
| Typical or additional Application   | High-temperature Application | Glass, for Indoor Applications                 | For 3C Applications     | Printing on perfumebottles, touchpanels | Front Panels for Household Appliances          | Inmould Application (second surface)  | Membrane Switches                      | Bottle Crates made of PE/PP | Soft-PVC, Tarpaulins        |

✓ = suitable    ✓ = limited suitability    💧 = pre-treatment with PLR    🔥 = post-treatment by flame, hot air, or oven drying

# Solvent Based Inks

## Product Information

|                         | Mara® Prop<br>PP            | Mara® Pur<br>PU                        | Mara® Pol<br>PY   | Mara® Speed<br>SL                   | Mara® Star<br>SR                        | Mara® Flor<br>TK     | Mara® Sign<br>TS | Mara® Poxy<br>Y          |
|-------------------------|-----------------------------|----------------------------------------|-------------------|-------------------------------------|-----------------------------------------|----------------------|------------------|--------------------------|
| Ink System              | solvent, 1C                 | solvent, 2C                            | solvent, 1C/2C    | solvent, 1C                         | solvent, 1C/2C                          | solvent, 2C          | solvent, 2C      | solvent, 2C              |
| Drying                  | medium                      | medium                                 | medium            | very fast                           | very fast                               | fast                 | slow             | fast                     |
| Degree of Gloss         | satin gloss                 | high gloss                             | high gloss        | satin gloss                         | high gloss                              | matt                 | high gloss       | glossy                   |
| Opacity                 | medium                      | high                                   | high              | medium                              | high                                    | high                 | transparent      | high                     |
| Outdoor Resistance      | medium-term                 | long-term                              | medium-term       | medium-term                         | long-term                               | medium-term          | long-term        | -                        |
| Special Characteristics | for un-treated PP, flexible | resistant to chemicals                 | flexible ink film | blocking resistant, vacuum formable | resistant to petrol                     | high wash resistance | press-ready      | high alkaline resistance |
| Basic Shades            | 14                          | 21                                     | 21                | 21                                  | 21                                      | 17                   | 5                | 12                       |
| 4-Clr Process           | -                           | -                                      | -                 | -                                   | -                                       | -                    | -                | -                        |
| Other                   | 3                           | 5                                      | 2                 | 3                                   | 34                                      | 2                    | -                | 1                        |
| Specials                | Opaque White and Black      | Opaque White, Varnish with UV-Absorber | Opaque White      | Press-ready Silver and Gold         | PANTONE®, Transparent Shades, Metallics | Opaque White         | -                | Overprint Varnish        |

## Auxiliaries

|                       |           |              |          |             |            |          |          |           |
|-----------------------|-----------|--------------|----------|-------------|------------|----------|----------|-----------|
| Thinner               | UKV 1/QNV | PUV          | UKV 1    | UKV 1/UKV 2 | UKV 1      | UKV 1    | -        | YV/UKV 1  |
| Thinner, mild         | -         | -            | UKV 2    | PSV         | UKV 2      | UKV 2    | -        | -         |
| Thinner, fast         | PPTPV     | 7037         | 7037     | 7037        | 7037       | -        | -        | -         |
| Retarder              | SV 1      | SV 5         | SV 12    | SV 5        | SV 5/SV 1  | SV 1     | -        | SV 5      |
| Retarder, slow        | -         | SV 1/SV 9    | SV 9     | SV 10       | SV 9/SV 10 | -        | -        | SV 3      |
| Retarder Paste        | -         | -            | -        | VP          | VP         | -        | -        | -         |
| Hardener              | -         | H 1/HT 1/H 4 | H 1/HT 1 | -           | H 1        | -        | H 1      | -         |
| Hardener, fast        | -         | H 2          | H 2      | -           | -          | H 2      | -        | YH 9      |
| Varnish/Bronze Binder | PP 902    | PU 910/911   | PY 910   | SL 910      | SR 910/911 | TK 902   | -        | Y 910     |
| Transparent Base      | -         | -            | -        | -           | SR 409     | -        | -        | -         |
| Thickening Agent      | -         | -            | -        | -           | -          | STM      | -        | -         |
| Levelling Agent       | ES        | ES/SA 1      | ES/SA 1  | ES/SA 1     | ES/SA 1    | SA 1     | -        | VM 1/SA 1 |
| Cleaner               | UR 3/4/5  | UR 3/4/5     | UR 3/4/5 | UR 3/4/5    | UR 3/4/5   | UR 3/4/5 | UR 3/4/5 | UR 3/4/5  |

## Substrates

|                                     | Mara® Prop<br>PP               | Mara® Pur<br>PU | Mara® Pol<br>PY    | Mara® Speed<br>SL       | Mara® Star<br>SR   | Mara® Flor<br>TK       | Mara® Sign<br>TS | Mara® Poxy<br>Y |
|-------------------------------------|--------------------------------|-----------------|--------------------|-------------------------|--------------------|------------------------|------------------|-----------------|
| ABS/SAN                             |                                |                 | ✓ H                | ✓                       | ✓                  |                        |                  |                 |
| Acrylic Glass (PMMA)                |                                |                 |                    |                         | ✓                  |                        |                  |                 |
| Anodised Aluminium                  |                                | ✓               |                    |                         | ✓ H                |                        |                  | ✓ H             |
| Glass, Ceramics                     |                                |                 |                    |                         |                    |                        |                  |                 |
| Metals                              |                                | ✓ H             | ✓ H                |                         |                    |                        |                  |                 |
| Paper, corrugated Board             |                                |                 |                    | ✓                       | ✓                  |                        |                  |                 |
| PETG, PETA                          |                                |                 | ✓ H                |                         | ✓ H                |                        |                  |                 |
| Polyactide (PLA)                    |                                |                 |                    |                         | ✓ H                |                        |                  |                 |
| Polyamide (PA)                      |                                | ✓ H             | ✓ H                |                         | ✓ H                |                        |                  |                 |
| Polycarbonate (PC)                  |                                |                 |                    |                         | ✓                  |                        |                  |                 |
| Polyester Foil, coated              |                                |                 |                    |                         | ✓                  |                        |                  |                 |
| Polyethylene (PE), pre-treated      |                                | ✓               | ✓ H                |                         |                    |                        |                  | ✓               |
| Polypropylene (PP), pre-treated     | ✓                              | ✓               | ✓ H                |                         |                    |                        |                  | ✓               |
| Polypropylene (PP), un-treated      | ✓                              |                 |                    |                         |                    |                        |                  |                 |
| Polystyrene (PS)                    |                                |                 |                    | ✓                       |                    |                        |                  |                 |
| PVC, self-adhesive foil             |                                |                 |                    | ✓                       | ✓                  |                        |                  |                 |
| PVC, rigid                          |                                |                 | ✓                  | ✓                       | ✓                  |                        |                  |                 |
| PVC, soft                           |                                |                 |                    |                         |                    |                        |                  |                 |
| Textiles, Cotton                    |                                |                 |                    |                         |                    | ✓                      |                  |                 |
| Textiles, Synthetics                |                                |                 |                    |                         |                    | ✓                      |                  |                 |
| Thermosetting Plastics              |                                |                 | ✓ H                |                         | ✓ H                |                        |                  | ✓               |
| Traffic Sign Foil, retro-reflective |                                |                 |                    |                         |                    |                        | ✓                |                 |
| Varnished Surfaces                  |                                | ✓ H             | ✓ H                |                         | ✓ H                |                        |                  | ✓ H             |
| Wood                                |                                | ✓               | ✓                  |                         | ✓                  |                        |                  |                 |
| Typical or additional Application   | Folders and Banners made of PP | Metal Housings  | Container Printing | Graphic Screen Printing | Container Printing | Sun Shades, Sun Blinds | Traffic Signs    | Bottle Crates   |

Do you need

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✓ = suitable    ✓ = limited suitability    H = pre-treatment with PLR    H = post-treatment by flame, hot air, or oven drying    H = with hardener