

IcoTech Metal MET

Industrial Screen Ink for Metal

Issue No. 008/2019

IcoTech Metal MET is a single pack screen ink combining outstanding resistance to many chemicals and solvents with excellent adhesion to an extensive range of 'difficult' surfaces.

Finish

IcoTech Metal MET is a very high gloss ink. **METMA Matting Base** is available to obtain finishes ranging from satin to matt by varying the mixing proportion from 5% for a satin finish to 15% for a matt finish.

Drying

IcoTech Metal MET dries with solvent evaporation and a chemical reaction.

At room temperature, full chemical resistance and adhesion are not developed until approximately 4 days after printing.

Adhesion and outdoor weather resistance are enhanced and drying times considerably reduced if **IcoTech Metal MET** is dried at elevated temperatures.

As drying times vary considerably depending on conditions, the following table is only a guide.

| Convection Oven | Stoving |
|-----------------|--------------|
| 150 °C | for 30 mins. |
| 140 °C | for 45 mins |
| 130 °C | for 60 mins. |

Adhesion

IcoTech Metal MET inks possess excellent adhesion over a wide range of difficult metal, glass surface including aluminium, copper, brass, bronze, tinplate, stainless steel and most of their alloy. Once **IcoTech Metal MET** inks are fully cured, they have good resistance to a wide variety of Chemicals including acids, alkalis as well as solvents, grease, cosmetics, detergents and household products. In case of difficulty, adhesion may often be enhanced by wiping the substrate surface with good quality white spirit, Propanol. In case of incorrect printing, Screen wash **ZTC-639** can be applied to wash it off thoroughly.

Colour Range

IcoTech Metal MET inks are available in 11 intermixable, lightfast, lead free colours, which includes an **ICONINKS** Matching System.

IcoTech Metal MET Extender Base is used for the following purposes:

- As a constituent of the **ICONINKS** Matching System
- For mixing with standard **IcoTech Metal MET** colours to promote transparency.

Main Characteristics

Finish

High Gloss

Drying

Stoving: 150 °C, 30 minutes.

Thinning & Wash-up

5-10% **MET557** (Thinner and Cleaner)

For shorter air drying time use **MET556** (Fast Thinner and Cleaner)

Wash up with Screen wash **ZTC-639**.

Mesh

No. 90-120 Monofilament

Stencil Type

Any type except solvent adhering film.

Recommend:

Emulsion **Dirasol 22**, **Dirasol 32** and **Dirasol 915**,

Coverage & Mesh No.

45 m²/kg. No. 120

Applications

Aluminium, brass and other metals

Glass, vitreous.

Colour Range

13 Colours and Bases

Properties

Excellent adhesion to metals, with resistance to chemicals and other industrial products. **IcoTech Metal MET** can also withstands punching, bending and forming.

Chemicals Resistance

Possesses exceptional resistance to most common chemicals such as acids, alkalis as well as solvents, grease, cosmetics, detergents and household products.

IMPORTANT: Stir well before every use. Always test the adhesion of IcoTech Metal MET on the article to be printed, as supposedly similar materials are liable to vary between different manufacturers and even between different batches.

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ICONINKS Matching System

The **ICONINKS** Matching System enables printers to readily match a wide variety of special shades.

Each of the **ICONINKS** matching colours has been carefully selected for cleanliness of tone and suitability for intermixing. Pigmentation and colour strength are high and with the additional use of Black, White and Varnish, almost any colour can be produced. The **ICONINKS** bases can be used as printing colours, but because of their required cleanliness of tone these colours, though strong, are in some cases relatively transparent.

Standard Colour

IcoTech Metal MET:

| | |
|---------------|----------------------|
| MET001 | Black |
| MET021 | White |
| MET064 | Yellow (GS) |
| MET066 | Yellow (RS) |
| MET114 | Orange |
| MET127 | Violet / Deep Violet |
| MET164 | Red (BS) |
| MET165 | Magenta |
| MET191 | Red (YS) |
| MET230 | Blue |
| MET325 | Green |
| MET383 | Extender Base |
| METMA | Matting Base |

Available in 1kg containers

Metallic Gold shades may be produced by mixing, by volume, 10 parts of **IcoTech Metal MET** Varnish with 1 part of **MP461** Rich Pale Gold Powder – Superfine.

Solvents

MET557 Thinner and Cleaner

Retarder is not necessary for **IcoTech Metal MET** as it will remain liquid at room temperature for up to 4 days.

Special Match

Colours can be supplied against prints, wet ink samples or to PANTONE®* references, British Standard, 'HKS' and 'Munsell' numbers. A sample of the substrate to be printed with the number and type of mesh to be used as well as other relevant data should be attached to orders.

Minimum quantity: 5kg.

*PANTONE® is the property of Pantone, Inc

Safety and Handling

IcoTech Metal MET:

- Is formulated to be free from any (toxic) carcinogenic, mutagenic or reprotoxic chemicals.
- Is formulated free from lead and other heavy metals and is tested to comply with the EN71-3:2013 Toy Safety Standard.

Comprehensive information on the safety and handling of **IcoTech Metal MET** screen inks and solvents is given in the appropriate **ICONINKS** Safety Data Sheet, available upon request.

Environmental Information

IcoTech Metal MET:

- Does not contain ozone depleting Chemicals as described in the Montreal Convention.

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Product Information sheet out of date and users are requested to ensure that they follow current recommendations.

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