



TINKREDIBLE MGA CRS^{max}

TMX - Metal Decoration Ink Mixing System

TINKREDIBLE the latest generation of oven-curing metal decoration inks designed for printing of food packaging.

TINKREDIBLE CRS^{max} is a high intensive metal decoration ink mixing system of oven-curing metal decoration inks designed for a wide range of applications. Choosing a suitable base inks assortment is of paramount importance in order to set the foundation for a convenient mixing process.

TINKREDIBLE CRS^{max} comprises of print ready, mono-pigmented base colour inks with high pigment concentration and highest levels fastness.

Range of Applications

The inks have been designed for printing from plates onto pre-coated or bright (uncoated) sheet metal. They feature a high surface hardness following thermal curing (150 – 175°C with a 10 minute pass) and are perfectly suitable for the application of a final coating, which can be applied wet-on-dry.

The range of potential print products extends from technical packaging through aerosol cans to sterilisation-temperature-resistant, deep-drawn forms of metal packaging.

Properties

| TINKREDIBLE MGA | Sales code | Fastness properties per ISO 12040 / ISO 2836 | | | | | |
|--------------------------------------|-------------|--|-------------------------------|-----------------------------|---------|-----------------|--------|
| | | Light BWS | Heat resistance ^{*1} | Sterilisation ^{*2} | Alcohol | Solvent mixture | Alkali |
| CRS ^{max} Yellow | 41 TMX 7705 | 7 | + | + | + | + | + |
| CRS ^{max} Yellow | 41 TMX 7716 | 6 | + | + | + | + | + |
| CRS ^{max} Yellow | 41 TMX 7772 | 8 | + | + | + | + | + |
| CRS ^{max} Orange | 41 TMX 7773 | 6 | + | + | + | + | + |
| CRS ^{max} Pink | 42 TMX 7712 | 7 | + | + | + | + | + |
| CRS ^{max} Red | 42 TMX 7723 | 7 | + | + | + | + | + |
| CRS ^{max} Red | 42 TMX 7729 | 6 | + | + | + | + | + |
| CRS ^{max} Blue | 43 TMX 7720 | 8 | + | + | + | + | + |
| CRS ^{max} Violet | 43 TMX 7726 | 7 | + | + | + | + | + |
| CRS ^{max} Green | 44 TMX 7722 | 8 | + | + | + | + | + |
| CRS ^{max} Black | 49 TMX 7700 | 8 | + | + | + | + | + |
| CRS ^{max} Transparent White | 40 TMX 7550 | 8 | + | + | + | + | + |
| CRS ^{max} Opaque White | 47 TMX 7782 | 8 | + | + | + | + | + |

Spot colours inks from the traditional communication systems can easily be matched and produced with the appropriate equipment and necessary know-how, using the mixing system CRS^{max}.

- Metal decoration inks for printing the non-food contact surface for food packaging
- Mineral oil free
- Maximum colour depth
- Good adhesion
- Very good printability in offset and letter press
- Coatable wet-on-dry
- Good scratch resistance
- Deep-drawable
- Short drying time at the usual drier temperatures (10 min. at 150 – 175°C)
- Very high level of heat resistance (max.10 min. at 210°C)
- Sterilisation-resistant (1 h at 130°C)
- Regarding all other properties, especially those for printing food packaging, please refer to our Technical Information 15P005 TINKREDIBLE MGA Process inks

TINKREDIBLE MGA CRS^{max} is for automatic dispensing systems and contains no drier. Drier has to be added as a separate component.

- 1,5% **TINKREDIBLE MGA Drier 10TMA7770**

Technical application

Fount solution delivery and composition

Delivery of the fount solution on the press must be kept to an absolute minimum – particularly when the level of ink application is low – in order to prevent excessive emulsification and poor coating quality associated with this.

The hubergroup has developed fount concentrates for use specifically with these products:

- **HYDROFIX-B 8013** (mit 8-10 vol% IPA)
- **MGA HYDROFIX 8014** (mit 8 – 10 vol% IPA)

Auxiliaries

Normally the inks can be processed as delivered. If an adaption of properties becomes necessary due to exceptional printing conditions, only approved additives must be used which are compatible with the specific TINKREDIBLE MGA binder system:

- **TINKREDIBLE MGA Print Oil 10TMA1405** (1-3% addition) to reduce the tack and consistency

Under no circumstances may conventional printing ink oils, paste reducers or the like be used. TINKREDIBLE MGA inks may only be mixed with other TINKREDIBLE MGA inks.

Classification

MSDS is available upon request.