ANTICORROSIVE COATINGS · WATER-BASED ACRYLIC

DTM 24-03

Water-based anticorrosive direct-to-metal primer / topcoat

COLOUR
RAL colours
semi-matt finish

1.05 g/cm³	53.6 %	90 min	5 h	0.4 mm
Specific gravity	Solids (by weight)	Touch dry	Recoat interval	Creep after 1440 h NSST

Product description

DTM 24-03 is a water-based anticorrosive primer / topcoat formulated with a special multi-phase acrylic resin technology. Designed for direct-to-metal application, it gives excellent adhesion, corrosion resistance and water-barrier performance on various metal substrates.

Recommended uses

- Atmospheric corrosion protection
- All types of metal surfaces
- Primer and topcoat in one product

Advantages

- Direct-to-metal – no primer required
- Fast drying
- Low VOC
- High water resistance
- Excellent water-vapour barrier
- Outstanding adhesion
- Semi-matt appearance
- Non-toxic formulation
- Roller, brush or airless spray

Position in the system

Primer / topcoat — THIS PRODUCT
DTM 24-03 · 2 coats · 180 µm DFT

Substrate
Steel & iron Sa 2½ / St 3 · other metals

Direct-to-metal protection

One product as primer and topcoat

1440 h NSST · 0.4 mm creep
Blasted steel · max. allowable 1.0 mm

unica | Boytem
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Corrosion & barrier performance

Results for **DTM 24-03** at 20 °C; corrosion creep measured on blasted steel after neutral salt spray testing (NSST).

0.4 mm	3.0 %	29 g/m²·day	180 µm	5 h
Creep · 1440 h NSST	Water absorption	Vapour permeability	DFT, 2 coats	Recoat interval

Water-vapour permeability by wet cup method. Maximum allowable corrosion creep: 1.0 mm.

Technical data (at +20 °C)

Colour	**RAL colours**	Theoretical consumption	**0.300 kg/m² (2 coats, 180 µm DFT)**
Specific gravity	**approx. 1.05 g/cm³**	Water absorption	**3.0 %**
Solids (by weight)	**53.6 %**	Water-vapour permeability	**29 g/m²·day (wet cup)**
Viscosity	**900 cP**	Corrosion creep (1440 h NSST)	**0.4 mm (max. 1.0 mm)**
Touch dry	**90 min**	Application temperature	**+14 °C to +35 °C**
Recoat interval	**5 h**	Shelf life	**12 months**

Application procedure

01

Surface preparation

Abrasive-blast or mechanically clean steel and iron to SIS 055900 Sa 2½ or St 3. Coat within 4 h – never the next day; if delayed, re-blast and clean.

02

Mixing

Mix the product thoroughly before use.

03

Application

Apply onto properly prepared metal by roller, brush or spray gun – approx. 0.180 kg/m² per coat.

04

Second coat

Recoat after 5 h. Two coats give a total of 180 µm dry film thickness.

Application conditions
+14 °C – +35 °C
Do not apply below +14 °C or above +35 °C ambient temperature.

Consumption
0.180 kg/m²
Per coat; 0.300 kg/m² theoretical for 2 coats / 180 µm DFT.

Touch dry
90 min
Recoat after 5 h.

Important: consumption values may vary with surface porosity, ambient conditions and application technique.

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Packaging

- 20 kg specially lacquered metal containers

Storage

- Store unopened in original packaging, dry and indoors at +15…+35 °C.
- Shelf life: 12 months from production.
- Protect from direct sunlight and frost.

Safety

- Not hazardous when fully cured.
- Contains no formaldehyde, asbestos, mercury, lead, chromates or derivatives.
- See the Material Safety Data Sheet (MSDS).

LEGAL NOTE

The explanations provided in this technical data sheet are based on test evaluations and results conducted according to relevant standards and are intended to guide applicators. As workmanship, weather conditions, construction, equipment used and other variables that may affect results are entirely beyond our control, UNICA does not provide any explicit or implicit warranty regarding this material. UNICA only guarantees that the material conforms to its product specifications, and its sole responsibility towards the buyer or user of this product is limited to the replacement value of the product in case of manufacturing defects. Under no circumstances shall UNICA be liable for any direct or incidental, special or consequential injury, loss or damage arising from the material or its application. UNICA shall not be held responsible in any way for any defects, alterations or changes in conditions in the substrate where its products are applied.