



DTM POLYURETHANE 2 PACK COATING - ALL RAL SHADES

PRODUCT CHARACTERISTICS

Description

PU Topcoat is a two component polyurethane topcoat (direct to metal), cured with aliphatic isocyanate, with good gloss and Colour retention.

Recommended use

As a finishing coat for protection of structural steel in moderate corrosive atmospheric environments, where paint performance and color retention are required

Service temperature:

- Room Temperature @ 30°C

Features

- A durable finish coat for Pu based coating systems, Tough, hard wearing finish with overall durability properties.
- High resistance to impact and abrasion.
- Excellent adhesion to aged PU coatings.
- High Anticorrosive properties.

PRODUCT SAFETY

Flash Point 27+/-2°C

Handling

Handle with care. Before and during use, observe safety labels on packaging and paint. Always consult Safety Data Sheet for this product along with the Product Data Sheet.

PRODUCT DATA

Product Name	-	PU DTM PAINT
Product components	-	Base Curing Agent
Standard shade* / code	-	IS / RAL or As per Customer Requirements.
Gloss	-	Matt, Semi-gloss. Egg shell
% NVM	-	60+/-2 %
Specific gravity	-	1.2 kg/L
Reference dry film thickness	-	120 micron
Fineness of Grind	-	10 Microns by Hegman Gauge
Covering	-	Covering – 8-10 M2/Ltr
Self Life	-	12 Months from the date of manufacturing. Unopened containers. Storage at room temperature in a closed room.

SURFACE PREPARATION

Cleanliness

- Remove oil, grease and other contaminants by suitable detergent cleaning.
- Remove salts, detergents and other contaminants by high pressure fresh water cleaning.
- Use 3 in 1 Solution.



DTM POLYURETHANE 2 PACK COATING - ALL RAL SHADES

New Build:

- Use degreasing, Phosphating Process for Surface Preparation.
- All damage of shop primer and contamination from storage and fabrication should be thoroughly mechanically/chemically cleaned prior to final painting.
- Remove dust, blast media and loose materials.

Consult separate Surface Preparation Guidelines for more details.

APPLICATION

Mixing ratio : Base : Curing agent (4 : 1 by volume)
Stir well before use.

Thinner : Thinner

Cleaner : Tool Cleaner

Pot life

Product Temperature	30°C
Pot life	3-4 hours

Application method

Tool	Application parameters	Thinning max vol.
Airless spray	Nozzle pressure: 2-25 bar	10

If brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness. Spray data are indicative and subject to adjustment.

The hardener component of this product must be mixed thoroughly with the base component and allowed to pre-react (induct) for a period of 15 minutes before proceeding to application. Without pre-reaction, this product may result in a greasy/tacky surface, incomplete cure and/or discoloration.

Film thickness

Specification range

Wet film thickness	-	180 - 200 Microns
Dry film thickness	-	120 Micro
Theoretical spreading	-	8 – 10 m ² /L



DTM POLYURETHANE 2 PACK COATING - ALL RAL SHADES

Application conditions

- Optimal paint temperature for proper mixing, pumping and spraying is: 25-30 °C
- To avoid condensation, apply on a clean and dry surface with a temperature that is at least 3°C [5°F] above the dew point.

DRYING AND OVER COATING

Product compatibility

Previous coat : None or according to specification.
Subsequent coat : None or according to specification.

Drying time

Surface Dry	-	Minutes 30
Touch Dry	-	Hours 4
Hard Dry	-	Hours 24

Drying conditions

- To obtain the drying time stated, it is important to maintain sufficient ventilation during application, drying and curing.

Other Remarks

- PU coats have an inherent tendency of chalking in outdoor exposure. This does not affect the performance of the coating.
- Specification supersedes any recommendations given in the Product Data Sheets.

DRY TEST

Cross Cut Adhesion

No visible damage or detachment after 48 hrs.

SST

No sign of corrosion after 500 Hrs.

STORAGE

Shelf life

Ambient temperature **35°C [95°F]**

Base	-	12 months
Curing agent	-	12 months

Shelf life from date of production, when stored in original, unopened containers. Thereafter, the product quality must be re-inspected. Always check The best before date or expiry date on the label.

Storage conditions

- Product must be stored according to local legislation, at maximum 40°C [104°F], without direct sunlight and protected from rain and snow.