

CELATECT UTC

CODE : 389-XXX/007

PROTECTIVE COATING

POLYURETHANE

DESCRIPTION

A weather resistance and easy cleaning polyurethane enamel based on polyol resin and poly isocyanate as hardener

USE

Topcoat for steel structure at marine or industrial severe corrosive environment

COLOR AND GLOSS LEVEL APPEARANCE

1. White and custom color (by request)
2. Gloss Level : Gloss, Semi Gloss, Matt (by request)

BASIC DATA

Data for mix product	
Application Method	Airless spray, Air spray, Brush or Roller
Specific Gravity	1.17 g/ml (mixtures, white)
Volume Solids	59% (mixtures)
VOC	480 g/Liter (Method 24 analysis)
Flash point	Base : 28°C Hardener : 4°C
Mixing Ratio	Base : Hardener = 5 : 1 by weight
Recommended DFT	50 micron/ coat
Theoretical coverage	9.5 m ² /Kg at DFT 50 micron 11 m ² /Liter at DFT 50 micron *Practical coverage vary depending on loss factor
Pot Life	At temperature 10°C 20°C 30°C 8 hours 5 hours 3 hours *Use all mixed paint within pot life
Packaging	5 Kg (4.17 Liter) Base in 5 Liter container 1 Kg (0.95 Liter) Hardener in 1 Liter container

SURFACE PREPARATION SUMMARY TABLE

Substrate	Surface Preparation	
	Minimum	Recommended
Coated Surfaces	Clean, dry and undamaged compatible coatin	Clean, dry and undamaged compatible coating

APPLICATION

Ambient temperature shall be above 5°C and relative humidity shall be below 85%. Surface temperature shall be minimum of 3°C above dew point.
Adequate ventilation shall be provided in confined spaces to ensure proper drying

Mixing	This material is a two component coating. Always mix a complete set unit in the proportion supplied. After mix, use all mixed paint within pot life specified 1).Stir Base (Part A) with power agitator 2).Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator		
Airless Spray	Recommended	Nozzle Tip : 0.33 – 0.43 mm Nozzle Pressure : Not less than 10MPa	
Air Spray (Conventional)	Recommended	Nozzle Size : 1.4 – 1.8 mm Nozzle Pressure : 0.3 – 0.4 MPa	
Brush	Recommended	Typically 20 – 30 μ can be achieved	
Roller	Recommended	Typically 20 – 30 μ can be achieved	
Thinner	Retan 6000 Thinner	Max 10% depend on application method	

Over coating interval for DFT 50 micron

Over-coating with	Interval	10°C	20°C	30°C
Polyurethan coating	Minimum	24 hours	16 hours	10 hours
	Maximum	1 month	1 month	1 month

Curing time DFT to 50 micron

Substrate temperature	Dry to touch	Dry to handle	Full cure
10°C	12 hours	48 hours	7 days
20°C	8 hours	24 hours	7 days
30°C	6 hours	16 hours	7 days

SAFETY PRECAUTIONS

For paint and recommended thinners, see safety sheet and relevant material safety data sheet
This is a solvent borne paint and care should be taken to avoid inhalation of spray mist of vapor as well as contact between the wet paint and exposed skin or eyes

- Avoid at all times inhalation or aerosol spray-mist
- Harmful by inhalation and in contact with skin
- Highly flammable liquid and vapor
- Harmful to aquatic organism, may cause long-term adverse effects in the aquatic environment

STORAGE

Store in dry, cool condition and away from sources of heat and ignition. Containers must be kept tightly closed. Store conditions shall be in accordance with national regulations

DISCLAIMER

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