

THERMOTECT 600

CODE : 265-501

PROTECTIVE COATING

HEAT RESISTANT

DESCRIPTION

A heat resisting paint based on special silicon resin

USE

Steel structure protection for high temperature service (up to 600 °C)

COLOR AND GLOSS LEVEL APPEARANCE

- Silver & Black
- Gloss Level : Sheen

BASIC DATA

Data for mix product	
Application Method	Airless spray, Air spray, Brush or Roller
Specific Gravity	1.04 g/ml
Volume Solids	48%
VOC	541 g/Liter (Method 24 analysis)
Flash point	28°C
Recommended DFT	25 micron/coat (DFT max : 60 micron)
Temperature Resistance	Continuous: Max 600°C
Theoretical coverage	18 m ² /Kg at DFT 25 micron 18.7 m ² /Liter at DFT 25 micron *Practical coverage vary depending on loss factor
Packaging	5 Kg (5.2 Liter) in 5 Liter container

SURFACE PREPARATION SUMMARY TABLE

Substrate	Surface Preparation	
	Minimum	Recommended
Carbon Steel	St 3 (ISO 8501-1)	Sa 2 ½ (ISO 8501-1)
Shop Primed Steel	Clean, dry and undamaged approved shop primer	Clean, dry and undamaged approved shop primer
Coated Surfaces	Clean, dry and undamaged compatible coating. Soft sanding if necessary	Clean, dry and undamaged compatible coating. Soft sanding if necessary

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	
Airless Spray	Recommended	Nozzle Tip : 0.38 – 0.43 mm Nozzle Pressure : Not less than 10MPa
Air Spray (Conventional)	Recommended	Nozzle Size : 1.5 – 2.0 mm Nozzle Pressure : 0.3 – 0.4 MPa
Brush	Recommended	Typically 15 – 20µ can be achieved
Roller	Recommended	Typically 15 – 20µ can be achieved
Thinner	Thermo 600 Thinner	Max 10% depend on application method

Over coating interval for DFT 25 micron

Over-coating with	Interval	10°C	20°C	30°C
Thermo 600	Minimum	16 hours	12 hours	8 hours
	Maximum	7 days	7 days	7 days

Curing time DFT to 25 micron

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

* Paint film should be baked 200°C – 250°C for 2 hours to completely curing

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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