Thermolac

TECHNICAL DATA SHEET

Description of the product

THERMOLAC is an alkyd based heat resistant anticorrosive paint based on synthetic resins. It has exceptional resistance to temperatures up to 100°C. It has good adhesion and spreads evenly rendering a perfect finish, elasticity and hardness on the metallic surfaces.

Recommended uses

It is used as a top-coat for radiators, hot water pipes and generally surfaces heated up to 100°C.

Technical characteristics

Resin: Alkyd resin	
Density: 1.14±0.04 gr/ml	(EN ISO 2811.01-02, 20°C)
Production Viscosity: 10±1.5 poise	(ISO 2884.02-03)
Storage Viscosity: 11.5±3 poise	(ISO 2884.02-03)
Solids b.w.: 60±3%	(EN ISO 3251-03)
Solids b.v.: 42±3%	(ISO 3233-98)
Flash point 37±3°C	(EN ISO 1523-02)

VOC (Volatile Organic Compounds): THERMOLAC belongs to the category A/i SB (One-pack performance coatings). EU Limit Value: 500 g/l. The ready to use product contains max. 498 g/l.

Shades

White.

Properties

Gloss 20°/60°: 83±7/91±5	(EN ISO 2813 -99)
Adhesion (Cross Cut on metal): 45±5 μm: 0-2 90±10 μm: 0-1	(EN ISO 2409-95)
Hardness (König): 55±13 sec, after 7 days	(EN ISO 1522-00)
Scratch Test: 45±5 μm:9±2N 90±10 μm:12±2 N	(EN ISO 1518-00)
Resistance to salt spray: 45±5 μm: Very good protection for at least 300 hours 90±10 μm: Very good protection for at least 500 hours	(EN ISO 9227-06)
Impact test): 45±5 μm:in/out 0-2/0 inch/pounds 90±10 μm: in/out 2-6/0 inch/pounds	(ASTM D 2794-04)
Bend test (Mandrel): 3±1 mm OK	(EN ISO 1519-02)
Sag Resistance (undiluted): 175±25 μm	(ASTM D 4400-99)
Sag Resistance (diluted 10% with Chrotex Brush Solvent): 150±25 μm	(ASTM D 4400-99)
Sag Resistance (diluted 10% v/v with Chrotex Spray Solvent): 125±25 μm	(ASTM D 4400-99)

Spreading rate

Dry film thickness per coat: 45±5 μm.
Spreading rate: 9±1 m²/Lt, per coat, for dry film thickness 45±5 μm.
14±2 m²/Lt, per coat, for dry film thickness 30±5 μm.

Application instructions

It is applied on surfaces that are clean from oil, dust, etc.
THERMOLAC is applied in 1-2 coats.
Application method: Brush, roller, spray.
Diluent: CHROTEX BRUSH SOLVENT or CHROTEX SPRAY SOLVENT, depending on the application method.
Thinning: *For application with brush, roller:* Dilute up to 10% v/v. [Application viscosity: 80±15 sec (DIN 53211-70/4 mm, 23°C), or 110±20 sec (EN ISO 2431-96/5 mm. 23°C, or 62±4 KU (ASTM D-562-05)].
For spraying: Dilute up to 10% v/v. [Application viscosity: 80±10 sec (DIN 53211-70/4 mm, 23°C), or 70±15 sec (EN ISO 2431-96/5 mm. 23°C, or 57±3 KU (ASTM D-562-05), nozzle size: 1.6-1.8 mm, air pressure: 2-3 atm].

Tools are cleaned immediately after the application with solvent, soap and water.

Drying time

Set to touch: 15±5 minutes (ASTM D 1640-03).
Dry to touch: 30±10 minutes
Dry through: 5±1 hours.
Recoating time: After 14 hours.

Drying and recoating time may be prolonged under conditions of low temperature and high relative humidity.

Coating system

On metal surfaces the use of an anticorrosive primer is not necessary.

Other systems may be applied, depending on the application.

Packaging

Available in 0.75 Lt and 2.5 Lt cans.

Storage

1 year, provided the cans remain closed and in normal storing conditions.

Health and safety

Please refer to the labeling mentioned on the can. In case more information is needed refer to the Material Safety Data Sheet.

Notes

- With the addition of **HARDADO** up to 15% b.v. a film of higher gloss, hardness and resistance is achieved. The mixture has a pot life of 8 hours (20°C).
- **THERMOLAC** can be tinted with the addition of MOBILAC.

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