



CODE: 378614

REVISION: 04

DATE: 20 April 2023

EPICON T-800

Product Description

EPICON T-800 is an anti-corrosive coating based on epoxy phenolic resin. The coating provides excellent physical properties such as adhesion, toughness, abrasion resistance, chemical resistance and is also resistant to salt water, fresh water, petroleum products, crude oil, alkalis and weak acids.

The product is suitable for protection of tank interiors. Airless spray can build a dry film thickness of 75 - 160 microns per coat.

This product is IMO PSPC type approved for COT.

Product Information

| | | | | | |
|---|---|---------------------------|---------|---------|---------|
| Type | Epoxy phenolic coating | | | | |
| Recommended Use | For use in product carrier tanks, crude oil tanks, chemical tanks, etc. | | | | |
| Mixing Ratio | Base : Hardener = 84 : 16 (by volume) | | | | |
| Colour | Light Grey | | | | |
| Flash Point | Base : 26.2°C Hardener : 7.5°C | | | | |
| Density | 1.36 G/ml | | | | |
| Volume Solids (VS) | 65 ± 2% | | | | |
| VOC | 359 G/l (EPA Method24) | | | | |
| Coverage (Theoretical) | 8.7 - 4.07 m ² /l | | | | |
| Wet Film Thickness | 115 - 246 μm | | | | |
| Dry Film Thickness | 75 - 160 μm | | | | |
| Drying Time (at D.F.T. 125μm) | Temperature | 10°C | 20°C | 30°C | 40°C |
| | Surface Dry | 2.5 hrs | 1.5 hrs | 30 mins | 15 mins |
| | Hard Dry | 24 hrs | 12 hrs | 6 hrs | 4 hrs |
| Painting Interval (at D.F.T. 125μm) | Minimum | 24 hrs | 16 hrs | 14hrs | 8 hrs |
| | Maximum* | 28 days | 21 days | 14 days | 10 days |
| | Maximum** | 10 days | 7 days | 5 days | 3 days |
| Pot Life | | 7 hrs | 5 hrs | 3 hrs | 1.5 hrs |
| Induction Time | | 30 mins | 20 mins | 10 mins | - |
| Thinner | Epoxy Thinner | | | | |
| Method of Application | Airless spray, Brush, Roller | | | | |
| Condition of Application | Temperature | : Minimum 10°C | | | |
| | Humidity | : Maximum 85 % R.H. | | | |
| | | Dew Point +Minimum 5°C*** | | | |
| | For Airless spray: | | | | |
| | Tip No. | : GRACO 619, 621, 623 | | | |
| | Paint Output Pressure | : 14.7 - 17.7 MPa | | | |
| | Spray Speed | : 60 - 80 cm/sec | | | |
| | Viscosity | : 1.0 - 1.8 Pa·s | | | |
| | Thinning | : 0 - 10 % by volume | | | |

Product Information

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| Recommended Surface Preparation | <p>New building: Weldseams and damaged areas: blast cleaned to Sa2 1/2 (ISO 8501-1:2007) General areas: blast cleaned removing at least 70% of intact shop primer; however, blast cleaned to at least Sa2 1/2 (ISO 8501-1:2007) for loading aggressive cargoes including chemical products. Repair/maintenance: Remove oil and grease etc. Remove salt and other contaminants by (high pressure) fresh water cleaning and completely dry. Clean damaged area by abrasive blasting to the standard Sa2 1/2 (ISO 8501-1:2007) minimum or power tooling to St3 (ISO 8501-1:2007). Water jetting: Consult your Dekro representative for recommendations.</p> |
| Preferable Preceding Coats | Cerabond 2000, Epicon T-800 Holding Primer |
| Preferable Subsequent Coats | - |
| Packaging | Two pack product |
| Pack Size | 5 litre; 20 litre |

Notes

- Prior to use, consult the Safety Data Sheet (SDS) and follow the health and safety instructions. Precautionary notice is stated on the SDS and on the product label.
- Ventilation shall be carried out during and after the coating application until the applied paint is fully cured.
- Agitate the Base component thoroughly with a power agitator, then pour the Hardener and stir the mixture until homogeneous. If thinning is necessary for workability and/or for a good coating appearance, add the recommended thinner without exceeding the maximum dilution ratio as specified and mix well before use.
- Excessive thinning will reduce sagging resistance and may affect coating performance.
- Only mix the amount which can be used within the pot life.
- *Strictly following the guidelines below:
 - Cover the manholes, etc., so that the coating is not exposed to direct sunlight. The maximum painting interval is as shown with ** if the coating is exposed to direct sunlight.
 - Roughen the surface and apply a touch up coat if the coating is whitened due to condensation or water ingress.
- Please ensure to follow the maximum painting interval shown with ** if the coating is exposed to weather due to block stage application.
- *** On steel : at least 5°C above dew point
 On coating : at least 3°C above dew point
- Characteristically epoxy coatings chalk and fade upon exposure to sunlight.
- Density, VS and VOC contents are measured from product samples without thinning. Values may vary depending on colour, manufacturing process, local regulations, etc.
- For application condition and any other information, please consult with your local Dekro office.

Technical Data (at 125 μ m)

| Item | Temp (°C) | -5 | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
|-------------------------------|--|----|---|---|-----|------|-----|------|-----|-----|------|
| | Set to touch | | - | - | - | 2.5H | 2H | 1.5H | 1H | 30m | 20m |
| Dry to hard | | - | - | - | 24H | 18H | 12H | 8H | 6H | 5H | 4H |
| Dry to recoat | Min. | - | - | - | 24H | 18H | 16H | 15H | 14H | 12H | 8H |
| | Max.* | - | - | - | 28D | 24D | 21D | 18D | 14D | 12D | 10D |
| | Max.** | - | - | - | 10D | 8D | 7D | 6D | 5D | 4D | 3D |
| Dry to immerse | Body coating | - | - | - | 20D | 15D | 10D | 7D | 6D | 5D | 4D |
| | Touch-up | - | - | - | 12D | 10D | 7D | 6D | 5D | 4D | 3D |
| Temporary Immersion*** | | - | - | - | 8D | 6D | 5D | 4D | 3D | 2D | 2D |
| Pot life | | - | - | - | 7H | 6H | 5H | 4H | 3H | 2H | 1.5H |
| Shelf life (M) | | - | - | - | 12M | 12M | 12M | 12M | 12M | 12M | 12M |
| Max. heat resistance | Continuous: 60°C / Non-continuous: 75°C (within 10 days) | | | | | | | | | | |

Abbreviations: Y : Year, M : Month, D : Day, H : Hour, m : Minute

*: In case that the surface is never exposed to sunshine

**: In case of outdoor exposure

***: It means temporary immersion time for tank test or sea trial at C.O.Tk. (max. period of immersion : 7 days)

Application

Correct surface preparation is essential for good product performance and all surfaces should be prepared as per the standard Dekro Preparation Specifications. Copies of these are available on request from your nearest Dekro Paints branch and/or stockist or can be downloaded from our website.

Safety Instructions

Always keep out of reach of children and animals.

Wear a suitable dust mask and goggles when preparing surfaces. Ensure good ventilation during application and drying.

If accidental contact with skin, wash immediately with soap and water or a recognised skin cleaner.

If accidental contact with eyes, rinse immediately with plenty of water and seek medical advice.

Harmful if swallowed. Seek medical attention and do not induce vomiting.

General

Different surfaces and environmental conditions require specific painting systems to produce the best possible results.

It is therefore recommended that you contact a Dekro Sales representative for advice on all your painting requirements whenever possible.

The technical data furnished is given to the best of our knowledge and based on controlled laboratory tests under ideal application conditions. No guarantee of any performance characteristic is therefore given or implied and we do not hold ourselves responsible for any consequential damage of whatsoever nature that may arise from use of our products. In the event of a proven product fault our liability will be limited to the replacement of the product only. It is the user's responsibility to confirm the currency of product data sheets.