

EPICON MARINE UNDERCOAT M

(EPM UC M)

PRODUCT DESCRIPTION

EPICON MARINE UNDERCOAT M, based on a combination of modified epoxy resin and polyamide curing agent, has excellent durability and adhesion properties.

It is protective undercoat for steel ships, bridges and steel structures.

PRODUCT INFORMATION

| | | | | | |
|---------------------------------------|--|--------------------------|----------|-----------|---------|
| Type | Modified Epoxy/Polyamide undercoat | | | | |
| Recommended Use | Undercoat of steel ships, bridges and other steel structures | | | | |
| Type of binder | Modified epoxy / amide resin | | | | |
| Mixing Ratio | Base : Hardener = 80 : 20 (by volume) | | | | |
| Color | Red Brown, White, Grey, Black | | | | |
| Flash Point | Base : 24.5 °C, Hardener : 27.5 °C | | | | |
| Solids by Volume | 45% ± 2 (Test Method : ISO-3233) | | | | |
| VOC | 503 g/l (EPA Method24), 525 g/l (Korea Air Conservation Act) | | | | |
| Coverage(Theoretical) | 9.00 m ² /l [0.111 l/m ²] at D.F.T 50μm | | | | |
| Wet Film Thickness | 88 - 131 μm | | | | |
| Dry Film Thickness | 40 - 60 μm | | | | |
| Drying Time (at D.F.T. 50μm) | Temperature | 5 °C | 10 °C | 20 °C | 30 °C |
| | Surface Dry | 3.5 hrs. | 2.5 hrs. | 1.5 hrs. | 1 hr. |
| | Hard Dry | 34 hrs. | 24 hrs. | 14 hrs. | 10 hrs. |
| Painting Interval (at D.F.T. 50μm) | Minimum | 24 hrs. | 18 hrs. | 16 hrs. | 8 hrs. |
| | Maximum* | - | - | - | - |
| Pot Life | | 24 hrs. | 20 hrs. | 18 hrs. | 12 hrs. |
| Thinner | EPICON THINNER, EPOXY THINNER A | | | | |
| Method of Application | Airless spray, Brush, Roller | | | | |
| Condition of Application | Temperature | : Minimum | | 5 °C | |
| | Humidity | : Maximum | | 85 % R.H. | |
| | For Airless spray ; | | | | |
| | Tip No. | : GRACO 619, 719 | | | |
| | Paint output pressure | : 14.7 – 17.7 MPa | | | |
| | Viscosity | : 80 sec.(Ford Cup No.4) | | | |
| Preferable Preceding Coats | BANNOH Series | | | | |
| Preferable Subsequent Coats | UNY MARINE Series, EPICON MARINE HB, etc. | | | | |
| Packaging | Two pack product | | | | |

Note :

* Please refer to the painting specifications.

TECHNICAL DATA (at 50 μ m)

| Temp (°C) | | -5 | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
|----------------------|----------|-------|---|------|------|-----|------|------|-----|-----|-----|
| Item | | | | | | | | | | | |
| Set to touch | | - | - | 3.5H | 2.5H | 2H | 1.5H | 1.5H | 1H | 1H | 45m |
| Dry to recoat | Min. | - | - | 24H | 18H | 17H | 16H | 12H | 8H | 7H | 6H |
| | Max. | - | - | - | - | - | - | - | - | - | - |
| Dry to hard | | - | - | 34H | 24H | 18H | 14H | 12H | 10H | 9H | 8H |
| Dry to immerse | Body | - | - | - | - | - | - | - | - | - | - |
| | Touch-up | - | - | - | - | - | - | - | - | - | - |
| Dry to Touch-up | | - | - | 24H | 18H | 17H | 16H | 12H | 8H | 7H | 6H |
| Pot life | | - | - | 24H | 20H | 19H | 18H | 15H | 12H | 10H | 7H |
| Shelf life (M) | | - | - | 12M | 12M | 12M | 12M | 12M | 12M | 12M | 12M |
| Max. heat resistance | | 100°C | | | | | | | | | |

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

Notes : In common with all epoxy coatings, EPICON MARINE UNDERCOAT M will show chalking and fading on exposure to UV light.

RECOMMENDABLE SURFACE PREPARATION

All surfaces to be free from various contaminants (oil, grease, dust, spray dust and etc.) and keep surfaces dry.
Kindly consult CSP sales office for specific information.

SAFETY PRECAUTIONS

In order to ensure safe use of our product, please be sure to follow the safety precautions indicated on the SDS and the paint container. If you need further explanation, do not hesitate to consult our personnel or our local distributors before buying, opening, using, or disposing the product. Since product contains flammable materials, keep away from sparks and open flame. No smoking should be permitted in the area on painting.

Wear an appropriate protector (eye and face protection, protective clothing, barrier creams, etc) when mixing, applying, or drying the paint. If products come into contact with the skin, wash thoroughly with warm water and soap or suitable cleaner. If the eyes is contaminated, irrigate with water and seek medical advice immediately.

DISCLAIMER

The information, including data, specifications, directions and recommendations, contained in this Data Sheet describes the experiment results under controlled or specially defined conditions and we do not guarantee that the Products, when used under the actual conditions of any intended use, will produce the same results. The performance of the Products in their actual use is affected by various factors, and the User must judge whether the Products are suitable for specific uses. We do not guarantee the performance of the Products under any specific operation environment other than the performance of the Products under the conditions described in this Data Sheet.

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