

## Colypoxy 505

### Epoxy Universal Primer

#### Product Description

A two-component epoxy primer that offers outstanding corrosion protection for steel structures in both industrial and marine settings. This versatile primer is suitable for direct application on steel, galvanized surfaces, aluminum, stainless steel, FRP, and wood. It is also compatible with surface preparation techniques such as ultra-high-pressure hydro blasting.

#### Product Information

|                  |   |                                     |
|------------------|---|-------------------------------------|
| Finish           | : | Glossy                              |
| Color            | : | Oxide Red, Grey, RAL Standard Color |
| Component        | : | 2                                   |
| Volume Solids    | : | 77 ± 2%                             |
| Specific Gravity | : | 1.23 gr/ml                          |
| Flashpoint       | : | > 28 °C                             |

#### Application Information

|                                                |   |                                            |
|------------------------------------------------|---|--------------------------------------------|
| Wet Film Thickness (μ)                         | : | 85 – 175 / Coat                            |
| Dry Film Thickness (μ)                         | : | 45 – 95 / Coat                             |
| Theoretical Spreading Rate (m <sup>2</sup> /L) | : | 5.5 – 11.5                                 |
| Mixing Ratio                                   | : | A/B : 87/13 By Weight      80/20 By Volume |

#### Application Methods

|                   |   |                                                                                                                          |
|-------------------|---|--------------------------------------------------------------------------------------------------------------------------|
| Brush & Roller    | : | Recommended for stripe coating and small areas only                                                                      |
| Airless Spray     | : | Recommended Tip Size: 0.53 – 0.63mm (21 – 25 thou)<br>Recommended Pressure: 140 – 165 kg/cm <sup>2</sup> (2000-2400 psi) |
| Thinner / Cleaner | : | Thinner C50                                                                                                              |

#### Drying & Curing Time

| Substrate Temperature | Touch Dry | Hard Dry | Overcoating Interval |            | Pot Life |
|-----------------------|-----------|----------|----------------------|------------|----------|
|                       |           |          | Minimum              | Maximum    |          |
| 10 °C                 | 60 mins   | 8 hours  | 16 hours             | Indefinite | 8 hours  |
| 25 °C                 | 30 mins   | 4 hours  | 8 hours              | Indefinite | 6 hours  |
| 30 °C                 | 15 mins   | 2 hours  | 6 hours              | Indefinite | 3 hours  |

\*The properties above may vary with surface temperature, site environment, film thickness, etc.

#### Packing & Storage

|            |   |                                                                                                          |
|------------|---|----------------------------------------------------------------------------------------------------------|
| Packing    | : | 5.0 Liters                                                                                               |
|            | : | 20.0 Liters                                                                                              |
| Shelf Life | : | 12 Months (Unopened)                                                                                     |
| Storage    | : | Cool, dry and well ventilated area away from heat and direct sun light. Lid must be kept tightly closed. |



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### Surface Preparation

All surface to be coated should be clean, dry and free from contamination as in accordance to ISO 8504. Oil and grease must be removed by solvent cleaning as in accordance to SSPC -SP1. Colypoxy 502 is recommended to be applied over steel substrates with surface preparation to a cleanliness of Sa 2 or St 3 (ISO 8501:1 - 1:2007) The surface should also be clean, dry and free from all contamination. Colypoxy 502 must be applied within the recommended overcoating intervals.

### Recommended Painting System

| Painting System | Product                                         |             |
|-----------------|-------------------------------------------------|-------------|
| Primer          | : Colypoxy 505                                  | 1 Coat      |
| Finishing       | : Recommended Coly Epoxy or Polyurethane Finish | 1 – 2 Coats |

### Preapplication Conditions

- 1) The surface temperature should be 3°C above the dew point and should not exceed 50°C.
- 2) The relative humidity should be between 60% and 85%.
- 3) Paint application shall not commence when there is a likelihood of an unfavourable change in weather condition within 2 hours after painting.
- 4) The Hardener (Part B) should be added to the Base (Part A) slowly while stirring with a mechanical agitator. Ensure all components are mixed together in a uniform and homogenous manner before application.

### Product Limitations

In common with all epoxies, Colypoxy 502 will chalk and discolour on external exposure and weathering. This phenomenon is not detrimental to the paint's anti-corrosive performance. Colypoxy 502 is recommended to be overcoated with durable high performance polyurethane finish for better weathering resistance. Maximum film build in a single coat is best achieved by airless spray. For brush and roller applications, multiple coats will be required to achieve the required DFT.

### Safety Precaution

This product is flammable and must be kept away from any source of ignition. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately. Keep out of reach of children.

**Disclaimer:** The above information is given to the best of our knowledge based on laboratory tests and practical experience. However, since we cannot anticipate or control the many conditions under which our product by be used, we can only guarantee the quality of the product itself. We reserve the right to alter the given data without prior notice.



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