RAINBOPRIME 805

Solvent-Free Epoxy Coating

PRODUCT NUMBER

RAINBOPRIME 805

TYPE

CHARACTERISTICS

The two pack, anticorrosion primer based on epoxy resin, hardener and special pigment.

1.Used for the new building system or the maintenance system, including water chamber and all areas of ship. Also used for anticorrosion engineering of steel structure such as chemical factories, bridges, power plants, inlet and outlet pipes, drains and sewers etc.

- 2. Very good adhesion for steel.
- 3. Excellent water and anti-corrosion resistance.
- 4. Used for repairing epoxy paint because of cutting or forced damage.
- 5. Very good recoat ability
- 6. Can be recoated by epoxy, polyurethane system coatings.
- 7. Very good compatibility with cathode anticorrosion system
- 8. No VOC emissions in the coating.

COLORS

VOC

DRYING & CURING TIME

SPECIFIC GRAVITY

(Curing table)

Grey, Red oxide Max. 0 g/L

Above 1.3 Kg/L (mixture)

Substrate temp.	5 ℃	10 ℃	15 ℃	20 ℃	30 ℃	40 ℃
Touch dry	18 hrs	12 hrs	8 hrs	6 hrs	5 hrs	3.5 hrs
Dry to handle	30 hrs	20 hrs	12 hrs	8 hrs	7 hrs	6 hrs
Full cure Ballasting interval)	21 days	14 days	10 days	7 days	6 days	5 days

Above information is for DFT 160µm. Adequate ventilation must be maintained during application

and curing.

OPTIMUN FILM THICKNESS

VOLUME SOLID Maximum DFT

Wet 100~ 200µ (Micron)

Dry 100 ~ 200µ (Micron)

DFT of 1500µm may occur, due to multi-layer overlapping, Yung Chi must be consulted in case of

DFT fall outside this recommendation 6.25 $\ensuremath{\mathrm{m}^{\!2}/\!L}$ for DFT 160µm THEORETICAL COVERAGE

OVERCOATING TABLE

(EPOXY system for DFT 160µm)

Surface should be dry and free from any contamination

Substrate temp.	5 ℃	10 ℃	20 ℃	30 ℃	40 ℃
Minimum interval	30 hrs	20 hrs	8 hrs	7 hrs	6 hrs
Max interval (exposed to direct sunshine)	30 days	21 days	14 days	10 days	7 days
Max interval (not exposed to direct sunshine)	1.5 months	1 months	21 days	14 days	10 days
Base: Hardener = 89.9 : 10.1 (by weight)			3:1(b	y volume)	

MIXING RATIO

POT LIFE (at application viscosity)

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15 ℃	20 ℃	30 ℃		
4 hrs	2 hrs	1 hrs		

THINNER

APPLICATION METHOD &

THINNER RATE

No.1005 Epoxy Thinner (SP-12)

Airless pump ratio 60:1 or above

The mixing temperature for the base and hardener should be performed at above 15℃. Or else thinner should be added in order to achieve application viscosity, too much thinner will result in sagging. Well mix the base and hardener before any thinner is added.

	Thinner use	Volume of Thinne□	Nozzle Orifice	Nozzle Pre□sure
Airless Spray	No.1005 Epoxy Thinner (SP-12)	0-5%	0.53-0.73mm(0.021-0.029)	150MPa(2130p.s.i)
Air Spray	No.1005 Epoxy Thinner (SP-12)	5-10%	1.5-2mm	0.3-0.4MPa(43-57p.s.i)
Brush & Roller	No.1005 Epoxy Thinner (SP-12)	0-5%		

EPDM3030805X V1.5

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RECOMMENDED SPEC. SHELF LIFE NOTE

Please refer the painting specification Minimum 2 years under normal storage condition.

For immersion exposure:

- Steel or steel with not approved zinc silicate shop primer; blast cleaned (dry or wet) to ISO-Sa2½, blasting profile 30-75 µm.
- Coated steel; hydrojetted to VIS WJ2 L (blasting profile 30-75 µm).

IMO-MSC.215(82) Requirements for Water Ballast Tanks:

- Steel; ISO 8501-3:2006 grade P2, with all edges treated to a rounded radius of minimum 2 mm or subject to three pass grinding.
- Sa 2½ on damaged shop primer and welds. Sa 2 removing at least 70% of intact shop primer, if the Shop primer is not IMO PSPC Type approved to be compatible with this main coating. If the Shop primer is IMO PSPC Type approved to be compatible with this main coating, intact shop primer may be retained. The retained shop primer shall be cleaned by sweep blasting, high-pressure water washing or equivalent method.
- After erection, butts St 3 or better or Sa 2½ where practicable. Small damages up to 2% of total area: St 3. Contiguous damages over 25 m² or over 2% of the total area of the tank, Sa 2½ shall be applied. Coating in overlap shall be feathered. The blasting profile shall be 30-75µm.
- Dust quantity rating "1 for dust size class "3", "4" or "5", lower dust size classes to be removed if visible on the surface to be coated without magnification (ISO 8502-3:1992).
- Water soluble salt limit equivalent to NaCl, after blasting / grinding shall be no more than 50 mg/m2 of sodium chloride.
- NDFT 320µm in with 90/10 rule. There shall be a minimum of two stripe coats and two spray coats, except that the second stripe coat, by way of welded seams only, may be reduced in scope where it is proven that the NDFT can be met by the coats applied, in order to avoid unnecessary over-thickness.
- Stripe coats shall be applied by brush or roller. Roller to be used for scallops, ratholes, etc.,

3. For atmospheric exposure conditions:

- Steel; blast cleaned to ISO-Sa2½, blasting profile 30-75 µm.
- Substrate temperature should be above 5°C and at least 3°C above dew point during application and curing.
- Maximum relative humidity during application and curing is 85%.

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