RAINBOW

SOLVENTFREE AMINE-CURED EPOXY FOR WATER TANK

MIL-PRF-23236D TYPE V CLASS 9 GRADE C

NSF Certified to NSF/ANSI 61

Specification Data

Product Number	EP-4567
Type	The two-pack solventless water tank coating based on Bisphenol A epoxy resin and polyamine resin with anticorrosive pigment.
Uses	Used for new water tank or maintenance old one to prevent rust, also suitable for steel and concrete structure, such as chemical plant, bridge, power plants, inlet and outlet water pipe, water ditch, sewer etc.
Characteristics	1. Good adhesion with steel or concrete substrate. 2. Excellent resistance to water and corrosion. 3. Good compatible with cathode protection system. 4. No VOC emissions in the coating. 5. The paint for white color obtains NSF ANSI 61 certificate, suitable for potable water tank lining. 6. Compliant with U.S. Navy military specification MIL-PRF-23236D TYPE V CLASS 9 GRADE C. 7. Compliant with U.S. Navy military specification MIL-PRF-23236D TYPE VI CLASS 9 GRADE C. 8. Compliant with U.S. Navy military specification MIL-PRF-23236D TYPE VII CLASS 9 GRADE C. 9. https://qpldocs.dla.mil/ (Search MIL-PRF-23236D TYPE V CLASS 9 GRADE C)
Color	White
Finish	Gloss
Density	Above 1.4Kg/L (mixture)
Viscosity	Approx. 110KU (mixture, 25℃)
Primer	NO.1073 (On Concrete)
Overcoating Intervals	Min. 12hrs Max. 10days (25℃)
VOC Values	Solvent-free
Volume Solids	100%(mixture)
Theoretical Coverage	25.2 m^2/Gal 6.67 m^2/L (DFT150 μm)
Pot Life	Within 1hr (mixture 25℃)
Dry Film Thickness	150 μm (Wet：150 μm)
Repair	Self Repairing

Performance Data

Test Method	System	Results
NSF/ANSI 61 Drinking Water System Components-Health Effects	1 ct. EP.4567 (150 microns) 1 ct. EP.4567 (150 microns)	QUILIFIED
MIL-PRF-23236D TYPE V CLASS 9 GRADE C	1 ct. EP.4567 (150 microns) 1 ct. EP.4567 (150 microns)	QUILIFIED

Test reports and additional data available upon written request.

EPDM10EP4567 V1.3

YUNG CHI PAINT & VARNISH MFG. CO., LTD.
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Certification

- NSF/ANSI 61 Drinking Water System Components-Health Effects
- MIL-PRF-23236D TYPE V CLASS 9 GRADE C

Application Instruction

- Surface preparation

General	Remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.Surfaces must be clean and dry. Moisture, grease, sludge, dust, corrosive salt must be thoroughly cleaned from substrate.
Steel	Surface preparation standards can use SSPC-SP10 or Sa2 1/2 (ISO 8501-1:2007).
Primed Surfaces	NO.4567 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and NO.4567 must be applied within the overcoating intervals specified (consult the relevant product data sheet).
Areas of Breakdown and Damage	It should be prepared to the specified standard (Sa2 1/2 (ISO 8501-1:2007) or SSPC-SP6, Abrasive Blasting or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of NO.4567.

- Mixing & Thinning

Mixing	Mix base and hardener according to the mixing ratio and stir thoroughly.
Thinning	Use Epoxy Thinner (SP-12) to thin up 5-10%.
Mixing Ratio	Base : Hardener = 3 : 1 (by volume)

- Equipment

Spray Application	Avoid applying the paint in rainy weather or the relative humidity exceed 85%, particularly, a wet surface must be thoroughly dried. All equipment must be cleaned immediately after use. To increase or decrease the usage of thinner depending on the temperature of the coated surface, the temperature decreased may have to add more amount of thinner
Airless Spray	Pump ratio 60:1 or greater Tip size : 0.029”~ 0.035” Input PSI: 85 Output PSI : 2800~4000.
Brush	Application by brush is applicable. For special condition please consult with product manufacturer.
Roller	Application by roller is applicable. For special condition please consult with product manufacturer.

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- Environment conditions

Condition	Coating	Surface	Environment	Humidity
Minimum	10℃ (50℉)	10℃ (50℉)	10℃ (50℉)	30%
Maximum	35℃ (95℉)	55℃ (131℉)	45℃ (113℉)	85%

Industry standards are for substrate temperatures to be 3℃(5℉) above the dew point . the product simply requires the substrate temperature to be above the dew point.

- Curing Schedule

Surface Temp. & 50% Relative Humidity	Set to touch	Dry Hard	Fully Cured
10℃ (50℉)	12 hours	24 hours	14 days
15℃ (59℉)	8 hours	16 hours	10 days
25℃ (77℉)	4 hours	8 hours	5 days
35℃ (95℉)	3 hours	6 hours	4 days

- Cleanup & Safety

Cleanup Use Epoxy Thinner (SP-12) to clean. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

Safety Please read and follow all caution statements on this product data sheet and SDS for this product.

Ventilation Proper ventilation and protective measures must be provided during application and drying to keep solvent vapor concentrations within safe limits and to protect against toxic or oxygen deficient hazards.

- Package, Handling & Storage

Shelf Life Part A : Minimum 1 years under normal storage conditions
Part B : Minimum 1 years under normal storage conditions

Shipping Weight Part A : 1 Gallon — 3.9kg 5 Gallon — 19.5kg
Part B : 1 Gallon — 1.3kg 5 Gallon — 6.5kg

Storage Temperature & Humidity 5-35℃ (41-95℉)
0-90% Relative Humidity

Flash Point Above 100℃(mixture)

Storage Store in cool ventilated place, do not exposed to the sun in outdoor to avoid affecting the quality.

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