“Epoxy filled coating for liquid surface and chemical resistance protection”

Product Information

IMRAE CoatMasters® 6007 series epoxy coatings are two-equal part by volume formulated reactive mixtures. A ceramic filled type thermosetting system, which provides superior surface abrasion resistance, adhesion and integral cohesion strength, high hydrostatic resistance, and provides chemical and/or fluid etching protection.

The novel epoxy resin (i.e. Part A) is reacted in equal parts by volume with a curing or hardening agent (i.e. Part B) of unique performance property. From the three types listed below, recommended type product from the choice of hardener is paramount in achieving final film properties intended for specific environmental exposure and/or fluid protection.

CoatMasters® 6007 HS – a two-component system cured with polyamide hardener (pot-life 2-hours), is preferably used for weatherability performance protection from constant water and salt-water immersions and exposures.

CoatMasters® 6007 HP – a two-component system cured with polyamide hardener (pot-life 2-hours), preferably used for corrosion resistance and protection from elevated pH or aqueous (i.e. acidic and basic) exposure of potentially contaminated water and/or waste.

CoatMasters® 6007 HS-NOVO – a two-component system cured with polyamine hardener (pot-life 30-minutes), preferably used for surface protection from strong acid and alkaline solution exposures. For specific type of acids of varying concentration, please contact our technical service group for assistance.

Case Study - Dewatering Plant (24-hours-7-day operation)
Pictures courtesy of the EMWD, CA

![Fig. A (Before)](image1)

![Fig. B (Coated)](image2)

![Fig. C (2-Years later)](image3)

No blistering or delamination on impact zones

Physical Characteristics

- Fast Cure
- Excellent Cure at Low Temperature
- Excellent Cure at High Humidity
- Heat Temperature Resistance
- Good Cathodic Disbondment Resistance
- DOT Non-corrosive
- Zero Induction Time
- 0% VOC’s
- High Solids system (80% min)
- Ready-to-Use (No Thinning Required)

Recommended Coating Thickness applications based on surface types

New steel and/or SSPC surface prepared: 20-100 mils DFT
New concrete and/or SSPC surface prepared: 20-200 mils DFT
Rehabilitated concrete and SSPC surface prepared: 100-300 mils DFT

Meets ASTM Testing on Coating Film Performance Characteristics at 7-day cure at 77°F.

- ASTM D638 Tensile Strength – 7,000 PSI (min)
- ASTM D638 Tensile Elongation – 1.5% (min)
- ASTM D695 Compressive Strength – 10,000 PSI (min)
- ASTM D790 Flexural Strength – 8,000 PSI (min)
- ASTM D790 Flexural Modulus – 400,000 PSI (min)
- ASTM C836 Shore-Type 00 Durometer (80 hardness min)
- ASTM D751 Hydrostatic Resistance, Met-A, Pro-1 (200-psi min), relative to thickness
- ASTM E96 Water Vapor Transmission (0.01 perms, in-lb.)
- ASTM D1630 Dry Time (10-12 wet film thickness)

CoatMasters 6007 HS / 6007 HP 6-7 hours tack free
CoatMasters 6007 HS / 6007 HP 18-24 hours dry hard
CoatMasters 6007 HS NOVO 1-2.5 hours tack free
CoatMasters 6007 HS NOVO 2.5-8 hours dry hard
CoatMasters 6007 HS NOVO 15-days max recoat time

- Bond strength (mild steel to mild steel) – 1,700 PSI (min)

Environmentally and Regulatory Compliant Coating

Growing environmental consciousness and regulations demands generally low VOC on various coatings. CoatMasters® 6007 is a solvent based system using approved and/or exempt solvents as approved and listed by the EPA and SCAQMD.

For more product information, please review Technical Data Sheet (TDS), on coverage, preparation, and application. For handling, regulatory compliance, and disposal instructions please read Safety Data Sheet (SDS) for details.

Product Packaging

All CoatMasters® 6007 products are available in full 5-gallon and 5-gallon pail-kits at 2.5-gallon levels each of Part A & B.

Disclaimer

The information and recommendations made are on our own studies and research that are believed to be accurate. However, no guarantee of accuracy is given mainly due to variations caused by actual application and substrate conditions of the material used. The customer must conduct appropriate testing to ensure compatibility, and suitability for all its intended use.