

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

Product Information

IMRAE **CoatMasters® 6007** series type 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, non-slip property 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 two 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.

Case Study - Dewatering Plant (24-hours-7-day operation)

Pictures courtesy of the EMWD, CA



Fig. A (Before)

Fig. B (Coated)



Fig. C (2-Years later) 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
- Zero Induction Time
- High Solids system (80% min)
- Ready-to-Use (No Thinning Required)

Recommended Coating Thickness 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 prepared: 100-300 mils DFT

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.

Use CM6007 HS-NOVO for Chemical Resistance application as an epoxy lining system, physical properties at 240-Mils Dry Film Thickness (DFT):

- ASTM D638 Tensile Strength Type IV – Avg. 4,000 PSI
- ASTM D638 Tensile Elongation Type IV – 1.16% Avg.
- ASTM D2240 Hardness Shore D, Durometer, 80 min
- ASTM D256 Izod Impact Resistance: 14 Joules/meter
- ASTM D256 Izod Impact Strength: 1.4 Joules/meter²
- ASTM D695 Compressive Strength – 10,000 PSI (min)
- ASTM D790 Flexural Strength – 8,000 PSI (min)
- ASTM D790 Flexural Modulus – 700,000 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 mils wet film thickness)
 Tack Free Time: 1-2.5 hours
 Dry Hard: 2.5-8 hours
 Max Recoat Time: 15-days (Max recoat time)

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.

Use CM6007 HP for Water and Saltwater Immersion Non-Potable Water use, physical properties at 240-Mils Dry Film Thickness (DFT):

- ASTM D638 Tensile Strength Type IV – Avg.1,500 PSI
- ASTM D638 Tensile Elongation Type IV – 1.20% Avg.
- ASTM D2240 Hardness Shore D, Durometer, 80 min
- ASTM E96 Water Vapor Transmission (0.01 perms, in-lb.)
- ASTM D1630 Dry Time (10-12 mils wet film thickness)
 Tack Free Time: 6-7 hours
 Dry Hard: 18-24 hours
 Max Recoat Time: 30-days (Max recoat time)

Environmentally and Regulatory Compliant Coating

Growing environmental consciousness and regulations demands low VOC on various coatings in general. **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.