



Delta Polymers, Inc. – 130 South 2nd St. – Bay Shore, NY 11706
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Marine Epoxy 205

Fire resistant epoxy coating and resurfacing compound which meets 94-VO rating

DESCRIPTION:

Marine Epoxy 205 is a 100% solid epoxy system which is primarily used as a coating, binder and resurfacing compound. It is a modified epoxy-amine system having unique properties featuring moisture insensitivity, high strength, high modulus and fire resistance. It not only is fire resistant, it reduces smoke and actually helps to put the fire down.

USES:

- Equipment rooms • Commercial kitchens • Water proofing in high rise buildings, hospitals •
- Commercial and industrial floors • Overlays 1/8" or 1/4" thick • Sealing • Patching •

PROPERTIES:

Marine Epoxy 205 samples are made and cured for 7 days at 75°F and then they are checked according to ASTM Tests.

Mixed Viscosity (Part A : Part B) CPS.	6000-8000	ASTMD-2393
Pot Life (minutes)	45-60	ASHTO T-237
Initial Cure @ 75°F hours	8-12	
Tensile Strength PSI	4500 Min.	ASTMD-638
Tensile Elongation %	4	ASTMD638
Tensile Strength PSI (Mortar)	1750	ASTMC-307
Compressive Strength (Mortar) PSI	10,000	ASTMC-579
Flexural Strength PSI	4000	ASTMC-580
Modulus of Elasticity	1.8 x 10E6	ASTMD-790
Bond Strength PSI	>=400 concrete failed	ASTMC-882
Indentation	None	MIL-3134F
Hardness Shore D	86	ASTMD-2240
Abrasion Resistance	0.09 gm.	ASTMD-1044
Water Absorption %	0.09	ASTMC-413
Thermal Coefficient of Linear Expansion in/in/°F	2 x 10E-5	ASTMD-696
Coefficient of Friction	0.54	ASTMD-2047
Flammability	Self Extinguishing	Meets 94VO
Heat Exposure:		
Continuous	150°F-200°F	
Intermittently	250°F-350°F	
Heat Deflection Temperature	200°F	ASTMD-648
Fungus & Bacteria Resistance	Will not support growth of fungus or bacteria	MIL-F-52505

CHEMICAL RESISTANCE:

Sulphuric Acid 10%	No Effect	Sulphuric Acid 25%	No Effect
Hydrochloric Acid 10%	No Effect	Hydrochloric Acid 37%	Slight Blistering
Phosphoric Acid 10%	No Effect	Acetic Acid 5%	No Effect
Lactic Acid 25%	No Effect	Citric Acid 10%	No Effect
Water	No Effect	Sodium Hydroxide 50%	No Effect
Ammonium Hydroxide 15%	No Effect	Salt Solutions	No Effect
Butyl Alcohol	No Effect	Xylene	No Effect
Gasoline	No Effect	Sour Crude Oil	No Effect

SURFACE PREPARATION:

Concrete: Remove all dirt, dust, grease, oil, detergents, coatings which may prevent proper adhesion to the surface. One or both of the following methods be used.

Mechanical - Use scarifer or shot blast or surface preparation. Any loose or weak concrete should be removed.

Chemical - Special detergents, muriatic acid or others according to the manufacturer's recommendations.

Steel: Should be sandblasted or abraded to white metal.

FINISH SURFACE:

Applied in either a Smooth finish or a Non-skid surface.

Apply two grout coats to achieve the desired texture of the surface.

WATER PROOFING MEMBERANE:

Marine Epoxy 205 is a 100% solid, high tear strength, high elongation polyurethane which meets 94VO. Fiberglass reinforcement can be used.

COVE BASE:

To provide an integral seal at the joint between the floor and the wall, cove bases in heights from 4" to 6' are recommended or may be specified.

COVERAGE:

PolyGrip 1005	50-60 ft ² / gallon.
Marine Epoxy 205	80-100 ft ² / gallon.
Marine Epoxy 205 Mortar	Depends Upon Thickness.

One Unit consists of:

Epoxy Base - 1/2 gal. / Epoxy Hardener - 1/2 gal. / Aggregates - 45 lbs.

Each Unit will Cover 17 ft² @ 1/4" thickness.

NON-WARRANTY

This product is made under strict quality control procedures of Delta Polymers, Inc. No guarantee is given or implied. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products which are defective in manufacture. No other warranty or guarantee of any kind is made by the seller, expressed or implied, statutory by operation or law or otherwise, including merchantability and fitness for a particular purpose.

CAUTION

Avoid contact with eyes and prolonged contact with skin. In case of eye contact, flush with plenty of water for at least 15 minutes and seek medical attention. For skin, wash with soap and water. KEEP AWAY FROM CHILDREN. For details see product data sheet and MSDS.

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