

300 HM

EPOXY BONDING GEL

GENERAL DESCRIPTION

Emecole Metro 300 HM is a two-component, 100% solids, non-sag epoxy bonding gel. It is formulated as a high strength, high modulus adhesive and mortar binder (mixes easily with aggregate). Use Emecole Metro 300 HM for grouting dowels, sealing cracks, honeycomb, tie rods and for vertical and overhead repairs of structural concrete.

Emecole Metro 300 HM is typically mixed with aggregate to yield a high-strength epoxy mortar (up to 70/30 by weight aggregate/300HM).

The Smooth gel consistency which is easy to work with is moisture insensitive, has good bonding strength and chemical resistance.

CONFORMS TO

ASTM C-881 Types 1, 11, IV and V. Grade 3, Class B & C

SURFACE PREPARATION

Surfaces must be structurally sound, clean, dry and free of contaminates. Remove defective concrete, cavities, and other defects by routing to sound material. If possible, sandblast or acid-etch surfaces to provide a clean, absorptive substrate.

MIXING

Pre-mix Emecole Metro 300 HM Part A and Part B separately. Combine one part of Part A resin to one part of Part B hardener (by weight or volume) in a clean container and mix thoroughly using a slow speed motor and paddle mixer. For mortar, mix one gallon by loose volume of #20 or #30 silica or quartz sand (25 pounds) up to one gallon of mixed 300 HM.

COVERAGE

231 cubic inches per gallon neat; approximately 360-462 cubic inches per gallon when aggregate is added.

PRECAUTIONS

Do not apply in temperatures below 40°F or to frozen, frost filled or damp surfaces. Use with adequate ventilation. Emecole Metro 300 HM contains an alkaline amine. Avoid breathing vapors and prolonged contact with the skin. Do not use solvents to thin. Use only oven dried aggregate to make mortar. Maximum thickness is 1- 1/2 inches per lift.

TECHNICAL DATA

PHYSICAL PROPERTIES * 77°F (25°C)

Mix Ratio A:B	1:1 by volume
Color	Concrete Gray
Viscosity	Non-Sag Gel
Pot Life (1/2 gallon)	20-25 Minutes
Tack Free (1/8 in.)	1/2-2 Hours
Final Cure	1-3 Days
Tensile Strength (ASTM D-638)	6000 psi
Tensile Elongation (ASTM D-638)	3.5%
Flexural Strength (ASTM D-790)	8500 psi
Deflection Temperature (ASTM D-648)	120°F
Bond Strength (ASTM C-321)	2500 psi
Compressive Strength (ASTM D-695)	13000 psi
Hardness (Shore)	80-D

WARRANTY

Recommendations concerning the performance or use of this product are based upon independent test reports believed to be reliable. If the product is proven to be defective, at the option of the Manufacturer, it will be either replaced or the purchase price refunded. The Manufacturer will not be liable in excess of the purchase price. The user will be responsible for deciding if the product is suitable for his application and will assume all risk associated with the use of the product. This warranty is in lieu of any other warranty expressed or implied, including but not limited to an implied warranty of merchantability or an implied warranty of fitness for a particular use.