

Concrete Admixtures and Fiber

IMIPOXY MV-100

High Modulus, Medium Viscosity Epoxy Bonding Adhesive

DESCRIPTION

IMIPOXY MV-100 is a two component, 100% solids, high modulus, moisture tolerant structural epoxy bonding adhesive that meets the requirements of ASTM C-881.

USE

IMIPOXY MV-100 primary use is bonding fresh concrete to hardened concrete, and for bonding steel to fresh concrete. IMIPOXY MV-100 has excellent adhrsion to most construction materials. IMIPOXY MV-100 may also be used for the anchoring of bolts,dowels and reinforcing steel in concrete.

ADVANTAGES

- High-strength structural adhesion meeting ASTM C-881 requirements
- Ideal for bonding fresh to hardened concrete
- Secondary use for anchoring bolts, dowels, and reinforcing steel
- Moisture tolerant
- Excellent adhesion to most materials

TECHNICAL INFORMATION

Applicable Standards: ASTM C-881, Type I,II,IV and V, Grade 2, Classes B & C

Application

Surface Preparation: Surfaces to be bonded must be clean and structurally sound. Remove all oil, grease, dirt, laitance, curing compounds and any other foreign material that may cause a problem with the bond. Abrasive blast cleaning and mechanical removal methods are recommended. All drilled holes must be cleaned out with a cylindrical bristle brush removing all dust and loose material. Use clean, oil free compressed air to blow out any remaining dust or debris prior to installation.

<u>Mixing Instructions</u>: Air, material and surface temperatures must be a minimum of $40^{\circ}F(4^{\circ}C)$ prior to mixing or installation. Premix each component separately, then mix equal volumes of Part A and Part B for three minutes with a low speed drill motor using a Jiffy mixer or paddle. Mix only as much material as can be used within the pot life.

Bonding: As a structural adhesive and bonding fresh concrete to hardened concrete, apply the IMIPOXY MV-100 material neat and work into the substrate by brush roller or spray. Apply the IMIPOXY MV-100 at a thickness of approximately 20 mils (508) or 80 ft^a/gal (1.96 m^a/L). While the IMIPOXY MV-100 is still tacky, place the fresh concrete. If the IMIPOXY MV-100 is no longer tacky, remove any surface dirt or contaminants and apply another coat of IMIPOXY MV-100 .

INTERNIATIONAL MATERIALS INDUSTRIES, L.L.C.

2800 N. Johnson St*New Orleans, Louisiana 70117 * PHONE: (504) 267-3344 * Fax: (504) 267-3345

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For use in anchoring dowels, bolts, reinforcing steel, etc. the depth of the hole should be approximately 9-15 times the bolt diameter. For optimum pull-out, the hole space (annulus)around the bolt in the hole should not exceed 1/4" without aggregate extension. Always disperse the IMIPOXY MV-100 into the anchoring hole filling from the bottom of the hole up. Insert the bolt or dowel by turning it slowly during insertion. After insertion, the hole should be completely filled with IMIPOXY MV-100 and devoid of all air pockets or voids. After insertion, the hole should be completely full of epoxy. To produce a mortar for interior patching repairs, mix 1-41/2 parts by volume clean dry well graded silica sand to 1 part by volume of the mixed IMIPOXY MV-100 . Mix thoroughly until all of the sand is completely wet out and evenly dispersed. First, apply a prime coat over the area to be repaired with the neat IMIPOXY MV-100 . Place the mortar, working it well into the surface of the concrete before the prime coat becomes tack free. Lifts should not exceed 1" (2.5 cm) in thickness.

APPLICATION PROPERTIES	
Mix Ratio Gel Time (ASTM C-881)	1:1 by volume 43 minutes
Color Viscosity	Gray 4800 cps
CURED PROPERTIES:	
Compressive Yield Strength (ASTM D-695) (at 7 days) Bond Strength (ASTM C-882)	12,830 psi min.(88.46 MPa)
2 days	1,750 psi (12.1 MPa)
14 days	3,135 psi (21.6 MPa)
Compressive Modulus (ASTM D-695)	444,196 psi 3,062.73 MPa)
Tensile Strength (ASTM D-638)	7,370 psi (50.81 MPa)
Elongation at Break (ASTM D-638)	1.95%
Water Absorption (ASTM D-570)	0.15%

PACKAGING

Unit Sizes: 1 Quart (.95 L) units 1 Gallon (3.8 L) units 2 Gallon (7.6 L) units 10 Gallon (37.8 L) units

LIMITATIONS

If the IMIPOXY MV-100 is no longer tacky during bonding operations, reapplication is allowed after removal of surface contaminents. Always test a small amount of IMIPOXY MV-100 to insure that the product is mixed properly and thoroughly and that the material will harden properly before proceeding with the installation. Do not thin with any solvents. Surface, ambient air andmaterial temperatures must be $40^{\circ}F(4^{\circ}C)$ or above. Do not expose uncured product to cold or freezing temperatures below $35^{\circ}F(1^{\circ}C)$ or $90^{\circ}F(32^{\circ}C)$ for any length of time. Note: High temperatures will accelerate the setting time and cool temperatures will slow down the setting time. As a general rule, the gel time of the epoxy will be cut in half for each $10^{\circ}-15^{\circ}$ increase in temperatures above $75^{\circ}F(24^{\circ}C)$.

STORAGE

IMIPOXY MV-100 should be stored in a dry environment between 40-90°F(5-32°C). Under these conditions, the shelf life is twelve (12) months in unopened, damage-free containers.

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