

RESCON[®] EPOXY BONDER MV

HIGH MODULUS, MEDIUM VISCOSITY EPOXY ADHESIVE

PURPOSE

RESCON EPOXY BONDER MV is used for bonding fresh concrete to hardened concrete or steel. It has excellent adhesion to most construction materials, including anchors, bolts, dowels and reinforcing steel.

RESCON EPOXY BONDER MV is a specially designed epoxy that provides:

1. High-strength structural adhesive for concrete.
2. Excellent bonding to most construction materials.
3. Easy to mix and apply for most jobsite conditions.
4. Conforms to ASTM-C-881 specifications.

DESCRIPTION

RESCON EPOXY BONDER MV is a two component, 100% solids, high modulus, moisture tolerant, medium viscosity structural epoxy bonding adhesive that meets the requirements of ASTM-C-881 specifications.

PACKAGING

RESCON EPOXY BONDER MV is packaged in 10 gallon (37.9 L) units and 2 gallon (7.6 L) units.

STANDARDS

RESCON EPOXY BONDER MV meets or exceeds the ASTM-C-881 specifications for Types I, II, IV and V, Grade 2, Class B and C.

SPECIFICATIONS

Color (mixed)	Gray
Cure Time	2 hours at 73°F (23°C)
Gel Time	43 minutes at 73°F (23°C)
Mix Ratio	1:1 by volume
Viscosity	4800 cps

PROPERTIES

Compressive Strength (ASTM-D-695)
12,830 psi (88.5 MPa) at 7 days

Compressive Modulus (ASTM-D-695)
444,196 psi (3,062.7 MPa)

Bond Strength (ASTM-C-882)
1,750 psi (12.1 MPa) at 2 days
3,135 psi (21.6 MPa) at 14 days

Tensile Strength (ASTM-D-638)
7,370 psi (50.8 MPa)

Elongation at Break (ASTM-D-638)
1.95%

Water Absorption (ASTM-D-570)
0.15%

APPLICATION

Storage: Store product in a dry place between 40°-90°F (5°-32°C). To prevent contamination, containers should be tightly closed and properly stored. Prevent accumulation of water, dirt or other residue on covers or cartons.

Preparation: Surfaces must be clean and structurally sound. Remove all oil, grease, dirt, laitance or other contaminants. Abrasive cleaning and mechanical removal methods are recommended. Use clean, oil-free compressed air to remove dust or debris.

Mixing: Air, material, and surface temperatures must be a minimum of 40°F (4°C) prior to mixing or installation. Premix each component separately, then mix Part A with Part B for three minutes with a low-speed drill motor using a Jiffy (or equivalent) mixer or paddle. Mix only as much material as can be used within the pot life.

Bonding: For bonding fresh-to-cured concrete or steel, apply neat material to the substrate and work into surface with brush or roller. Apply material at a thickness of approximately 20 mils or 80 ft²/gallon (1.96 m²/L). While the material is tacky, place the fresh concrete on treated substrate. If the material is no longer tacky, then reapplication of material is required.

Anchoring: For bonding anchors, bolts, dowels and reinforcing steel, the depth of the hole should be approximately 9 to 15 times the anchor diameter. For optimum pullout, the space around the anchor (annulus) when positioned in the hole should be approximately 1/8" (0.3 cm) and should not exceed 1/4" (0.6 cm). Dispense material by filling from the bottom of the hole up. Insert the anchor by slowly turning and pushing down. The anchor should displace material and fill the hole completely, without leaving air pockets or voids.

Patching: To produce an interior repair mortar, mix 1.0-4.5 parts clean, dry, well-graded silica sand (by volume) to 1 part of mixed epoxy (by volume). Blend thoroughly until all the sand is completely wet and evenly dispersed. Apply a primer coat of neat epoxy to the repair area before placement. Place the blended mortar into the repair before the primer coat becomes tack free. Mortar placements should not exceed 1" (2.5 cm) in thickness. Subsequent placements following these instructions can be used for deeper repairs.

Unusual applications or conditions may require the technical assistance of a Symons representative.

LIMITATIONS

If the RESCON EPOXY BONDER MV is no longer tacky during installation, then reapplication is required.

Always test a small amount of material to verify mixing procedures and setting properties.

Do not thin with any solvents. Surface, ambient air, and material temperatures must be 40°F (4°C) or above. Do not expose uncured product to cold or freezing temperatures below 35°F (1°C) for any length of time.

Higher temperatures will decrease and cooler temperatures will increase the setting time. In general, the gel time may be cut in half for each 10°-15°F increase above 75°F (24°C).

CLEAN-UP

Clean tools and equipment with xylene before the epoxy sets up.

SHELF LIFE

Shelf life of RESCON EPOXY BONDER MV in properly stored containers is one year.

PRECAUTIONS

It is mandatory to take the following precautions to protect workers and the public:

1. KEEP OUT OF THE REACH OF CHILDREN.
2. Product is a strong sensitizer. Protective clothing is recommended.
3. Avoid breathing product vapors. Ensure adequate ventilation.
4. Avoid contact with skin. Contact areas should be thoroughly washed with soap and water.
5. Avoid contact with eyes. Flush eyes with water if contact occurs.
6. Avoid ingestion of material. If ingestion occurs, contact a poison center or physician.

Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet.

WARRANTY

Symons warrants, for 12 months from the date of manufacture, or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Symons, the product is free of manufacturing defects and conforms to Symons' published specifications in force on the date of acceptance by Symons of the order. Symons shall only be liable under this warranty if the material has been applied, used, and stored in accordance with Symons instructions in this technical data sheet.

The purchaser must examine the product when received and promptly notify Symons in writing of any nonconformity before the product is used, or no later than 30 days after such nonconformity is first discovered. If Symons, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the nonconforming product, refund the purchase price or issue a credit. This is the sole and exclusive remedy for breach of this warranty.

Only a Symons officer is authorized to modify this warranty. The sales information on the Symons website and received by the customer during the sales process does not supersede this warranty and the specifications of the product in force on the date of sale. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

LIMITATION OF LIABILITY

Symons shall not be liable, in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injuries), or economic losses of any kind; or for any special, incidental, indirect, consequential, special, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, this Agreement, even if Symons could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this agreement, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.

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