

# ROADWARE CONCRETE MENDER VO™ LOW ODOR

## PRODUCT DESCRIPTION

Roadware Concrete Mender VO™ is a high-penetration two-part hybrid urethane that combines with sand to form a tough instant polymer concrete. This high penetration formula is designed for penetrating deep into the host concrete creating extremely high bond strengths, reinforcement of the repair area as well as permanent repairs. Roadware Concrete Mender VO™ produces polymer concrete repairs that absorb the shock and transfers the load of heavy traffic without cracking or dis-bonding. It is highly chemically resistant and can be applied in a wide range of temperatures. It is excellent for industrial floor repairs subject to forklift traffic and harsh conditions.

## USES

- Repairing cracks, where future movement is not anticipated.
- Restoring integrity to distressed concrete.
- Repairing spalls and pop-outs in concrete.
- Securing bolts, equipment, or railings into concrete.
- Vertical repairs when combined with specified sand.
- Repairing concrete surface imperfections prior to coating.
- Repairing cracks and spalls prior to coating.
- Repairing polished concrete.
- Polishing pit grout.
- Freezer thresholds and floor repairs.

## FEATURES

- Very low viscosity allows deep penetration into concrete.
- Can be cartridge applied or bucket mixed..
- When combined with manufactured sand, Concrete Mender VO™ will form a tough 4100 psi polymer concrete with similar properties to existing concrete that will stay pliable over time.
- Safe to use. Materials react quickly with almost no odor.
- Self-leveling or may be combined with sand and worked with a trowel. Stays workable longer than similar materials.
- Completely cures in 20 minutes after application at 70° F. Will also cure rapidly in subzero environments.

## BENEFITS

- Long lasting repairs that accommodate harsh physical environments.
- Easy preparation, a wire brush is all that is needed in some cases.
- No downtime, repairs are fully ready for traffic in approximately 20 minutes from application.
- Almost no noticeable odor, can be used in a wide range of indoor areas.

## LIMITATIONS

Roadware Concrete Mender VO™ is designed for use on interior or exterior concrete surfaces. It is not intended for repairing areas of movement such as exterior cracks and joints subject to regular freeze-thaw cycling. It must be applied to concrete free of surface moisture, dirt or contaminants.

## TECHNICAL INFORMATION

Visit our web site at [www.roadware.us](http://www.roadware.us)

Color	Natural Off-white. User added sand and pigment determines final color.
Compressive Strength, ASTM D695	4109 ± 65 psi depending on sand load.
Tensile Strength, ASTM D638	4260 ± 245
Elongation ASTM D638	4.2 ± 1.0
Hardness	70D
Viscosity	Approximately 30cps
V.O.C. (Mixed)	Zero
Cure Time (Tac Free)	Approximately 20 minutes at 72 F (22 C).
Packaging	61150 - 50ml Cartridge 61300 - 600 ml Cartridge 61020 - 2-Gallon Kit 61050 - 10-Gallon Kit
Application Temperature Range	20F to 100F See Tech Service for colder temperature application.

## PREPERATION

Concrete must be clean, dry and free of dirt and contaminates. Use mechanical methods to remove loose concrete and profile hard trowled surfaces. Use surface applied heat to remove ice or frost if present.

## MIXING

Cartridge: Static mixing 600ml or 50ml twin cartridge.  
Bulk: Mix at a 1:1 ratio in a bucket by hand for 30 seconds. Start with a one quart total batch. Add up to two quarts of 40-30 grit or larger dry manufactured sand or quartz and blend well.

## APPLICATION

Cartridge: Apply a thin layer of material into the crack, joint or spall. Add 1/4" of manufactured sand or quartz. Apply additional material to saturate the sand. Work in layers filling the repair area to just above grade. Trowel as necessary.  
Bulk: Apply mixed material directly to the repair area. Screed off excess and allow to cure.

## CURING AND FINISHING

Cure time is 20-30 minutes at 70F. Repairs can be ground smooth, polished or coated after one hour.



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