

UNIQUE FLEXICRETE[®] 25 POLYMER MODIFIED CONCRETE MIX

DATA SHEET

UNIQUE FLEXICRETE[®] 25 Polymer Modified Concrete Mix

Product Description

UNIQUE FLEXICRETE[®] 25 Polymer Modified Concrete Mix is an easy to use polymer modified non-shrink/volume stable trowel grade concrete.

Recommended Uses

Use to repair roadways, industrial floors, loading docks, parking garages, curbs, utility cuts, pre-cast & sidewalks.

Benefits / Features

- Use from 1" to 6" deep
- Excellent adhesion to concrete surfaces
- Non-shrink/Volume stable
- Open to foot traffic in 4-6 hours
- Open to vehicle traffic in 8-12 hours
- Abrasion resistant
- Increased freeze/thaw durability and resistance to deicing salts
- Compatible with the thermal expansion of concrete

Limitations

Not intended for applications on unsound concrete or like surfaces. Not recommended for applications under 1" deep. For applications under 1", use **UNIQUE FLEXICRETE XP** Polymer Modified Mortar. For overlay applications at least one test section should be prepared to evaluate the suitability of the materials and procedures.

Surface Determination

Why has the concrete failed? Is there presence of salt, freezing damage, drainage water, deteriorated control or expansion joints? The surface area to be repaired should be in solid condition.

Surface Preparation

The area to be repaired should be checked with a chipping hammer to ensure the exposed concrete is not scaling. If a section of concrete is deemed to be questionable, complete removal and replacement should be considered. Patching over control or expansion joints is not recommended. The quality and durability of your repair depends on the surface to be patched. Remove loose concrete, mineral salts, grease and paint that will limit bonding performance. Mineral salt should be treated with an acid wash to ensure its removal. Exposed rebar should be free of rust or scaling then protected with a zinc oxide coating to reduce the

probability of future rust development. Wet the repair area with water leaving it Saturated Surface Dry (SSD) during the repair. Any standing water should be removed.

For Best Results

For best results the water temperature should be between 55°F and 75°F.

- Warmer water will accelerate the set of material
- Cooler water will slow the set of the material

Mixing

Organize work so that all personnel and equipment are in place before mixing. Roll or shake the sealed pail of **UNIQUE FLEXICRETE 25** polymer modified concrete mix to ensure the product is thoroughly mixed prior to use. Use clean, potable, drinkable water. The use of a mortar mixer or variable speed drill is recommended. **UNIQUE FLEXICRETE 25** concrete mix may be mixed using the percentages of water as shown in the table below:

Water	UNIQUE FLEXICRETE [®] 25 Polymer Modified Concrete Mix
25 - 28 oz.	10#
50 - 56 oz.	20#
3.9 - 4.4 qt.	50#

Use less water to achieve higher strengths. Do not exceed the recommended water percentages.

Place the desired quantity of water into the mixing container. While the mixer is running add the material. Mix for the minimum amount of time required to achieve a lump-free, uniform consistency (usually 1 to 3 minutes). Let material false set for 1 to 3 minutes to ensure the polymers have had time to hydrate. Re-blend material for 2 to 3 minutes to ensure a uniform consistency.

If mixing smaller amounts of **UNIQUE FLEXICRETE 25** concrete mix, thoroughly mix the dry ingredients prior to adding the product to the water. Use the chart below for water ratios:

Placement

Make sure surface is SSD and any standing water has been removed. **UNIQUE FLEXICRETE 25** polymer

Another Quality Product Available From
UNIQUE Paving Materials Corp.
3993 East 93rd Street Cleveland, OH 44105
800-441-4880 www.uniquepavingmaterials.com



UNIQUE FLEXICRETE® 25 POLYMER MODIFIED CONCRETE MIX

concrete mix may be placed using traditional methods from 1" to 6". Place and consolidate the material quickly to allow for maximum finishing time. **UNIQUE FLEXICRETE 25** polymer concrete mix may be troweled, floated or broom finished. For any other questions, please contact UNIQUE's Technical Department.

Coverage

10 pounds of **UNIQUE FLEXICRETE 25** polymer modified concrete mix yields approximately 0.11 cubic foot of finished product when mixed with 28 ounces of potable water. Material will yield about 10 pounds per square foot per 1" thick.

Clean up

Water soluble prior to drying. Clean container and tools prior to material drying.

Curing

Damp cure all installations. Begin curing as soon as the surface has lost its moist sheen. Keep exposed surfaces

wet for a minimum of 1 hour. When experiencing extended setting times due to cold temperature or the use of a retarder, longer cure times may be required. The objective of damp curing shall be to maintain the continuously wet surface until the product has achieved sufficient strength.

Temperature

Warm environmental and materials temperatures will reduce the working time. To compensate for warm

temperatures, keep material cool and use chilled water. Temperatures below 60°F will decrease the rate of strength gain. **UNIQUE FLEXICRETE 25** polymer concrete mix should not be applied if surface temperature is below 45°F or above 90°F.

Shelf Life

Two years if stored in an unopened pail according to ACI Guidelines.

Freight

Class 55

Packaging

Item #	Description	
52-00030	UNIQUE FLEXICRETE® 25 Polymer Modified Concrete Mix Pail 1-gal (10#)	120 - 10# pails per stretch wrapped pallet 3360 - 10# pails per truckload
52-00031	UNIQUE FLEXICRETE® 25 Polymer Modified Concrete Mix Pail 2-gal (20#)	60 - 20# pails per stretch wrapped pallet 1680 - 20# pails per truckload
52-00021	UNIQUE FLEXICRETE® 25 Polymer Modified Concrete Mix Pail 5-gal (50#)	36 - 50# pails per stretch wrapped pallet 828 - 50# pails per truckload
Special	UNIQUE® FLEXICRETE 25 Polymer Modified Concrete Mix Poly Lined Bag (50#)	60 - 50# bags per stretch wrapped pallet 840 - 50# bags per truckload Minimum order 2,000 bags

Truckload quantities are typical but may vary depending on destination, truck tare weight and/or trailer type (box van, flat bed, rail shipments or ocean freight container).

Another Quality Product Available From
UNIQUE Paving Materials Corp.
3993 East 93rd Street Cleveland, OH 44105
800-441-4880 www.uniquepavingmaterials.com



UNIQUE FLEXICRETE® 25 POLYMER MODIFIED CONCRETE MIX

Caution:

This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive problems. THIS PRODUCT CONTAINS FREE SILICA. Any inhalation of dust may be harmful to your health. Excessive inhalation causes the risk of serious respiratory disease (SILICOSIS) and susceptibility to other possibly fatal disease. Some medical studies suggest a possible association between crystalline silica and incidence of cancer in humans. Take appropriate protective measure to avoid breathing dust. Use a NIOSH approved respirator for silica dust. For further information, please refer to the Safety Data Sheet.

Injurious to eyes and causes skin irritation. Contains Portland Cement and Lime. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. In case of eye contact, flush with plenty of water for at least 15 minutes. Consult a physician immediately if irritation persists. Keep out of reach of children. Do not take internally.

Limited Warranty:

UNIQUE Paving Materials Corporation (UNIQUE) warrants that at the time and place we make shipment our materials will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED. WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM OR TRADE OR OTHERWISE ARE SPECIFICALLY DISCLAIMED. As the exclusive remedy for breach of this warranty, we will replace defective materials, provided, however, that the buyer examines the material when received and promptly notifies us in writing of any defect before the materials are used or incorporated into structure. Three (3) months after UNIQUE has shipped the materials, all our warranty and other duties with respect to the quality of the materials delivered shall conclusively be presumed to have been satisfied, all liability therefor terminates, and no action for breach of any duties may thereafter be commenced. UNIQUE shall in no event be liable for consequential damages. No warranty is made with respect to materials not manufactured by UNIQUE.

UNIQUE FLEXICRETE® is registered trademarks of Unique Paving Materials Corp.

Another Quality Product Available From
UNIQUE Paving Materials Corp.
3993 East 93rd Street Cleveland, OH 44105
800-441-4880 www.uniquepavingmaterials.com

