

# SILIKAL® FM Concrete Screed

For concrete surfacing, sloping and leveling



## Description

**Silikal FM Concrete Screed is a fast setting, high strength concrete surfacer for levelling and sloping of concrete.** The mix design is engineered to provide high early and ultimate compressive strength for fast track screeds and application of subsequent overlays. Polymer overlays can be applied as soon as the screed can be mechanically prepared, generally within a 24 hour period. Silikal FM Concrete Screed can be applied at thicknesses up to 8 inches with a minimum thickness of 3/8 inch. The product is applied and finished with conventional concrete tools and techniques.

## Packaging And Coverage

Silikal FM Concrete is packaged in a 50 pound bag. Add a minimum of 25 pounds up to 60 pounds of 1/4 x 3/8 pea gravel, silica pebbles, granite or trap rock per bag. A 75 pound mix will yield 0.5 cubic feet and should be used for pours under one inch thickness. A 110 pound mix will yield 0.75 cubic feet and can be used for pours one inch or greater.

## Typical Properties

### Compressive strength, psi

1 day.....3500

7 days.....7000

28 days.....9500

### Flexural Strength, psi

28 days.....1100

### Splitting Tensile Strength, psi

28 days.....1100

## Application

Concrete must be sound, clean and prepared by abrasive blast, scarifying or water blast. Pours under 1 inch thickness must be primed with an epoxy bonding agent Silikal RE-55 or RE-77 at 100 square feet per gallon. FM Concrete must be placed into wet bonding agent. For rough substrates, an alternate bonding agent can be prepared by adding sufficient water to the 50 pound bag of FM Concrete to make a slurry that is then broomed into the existing slab. The FM Concrete can then be placed into the slurry coat.

Add 5 pints of water to each 50 pound bag of FM Concrete. Add additional aggregate and continue mixing for two to three minutes in a concrete mixer or with an auger mixer until material is homogeneous and reaches desired consistency. The wetting agent in the FM Concrete needs at least 2 minutes mixing time to be effective. Three (3) quarts of water can be used for a 110 pound mix. Additional water may be used but will decrease the strength of the concrete and add to the cure time.

	FMC +	Aggregate +	Water =	Yield
Scratch Coat	50 pounds	N/A	4 to 5 quarts	150 sq. feet
1/2" to 1"	50 pounds	25 pounds 1/8 x 1/4 pea gravel	5 pints	1/2 cu. foot*
Over 1"	50 pounds	60 pounds 1/4 x 3/8 pea gravel	3 to 4 quarts	3/4 cu. foot**

\*1/2 cu. ft. equals 6 square feet at 1 inch thickness

\*\*3/4 cu. ft. equals 9 square feet at 1 inch thickness

## Silikal America

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## Finishing

A float finish is recommended. Conventional finishing and curing techniques are acceptable. Do not overtrowel. Moist cure with wet blankets or similar techniques for 12 to 72 hours depending on temperatures, relative humidity and thickness of pour. Subsequent polymer surfacers can be applied once the concrete has developed sufficient strength to be prepared by shot blast equipment.

## Warranty

**SILIKAL AMERICA** warrants its products to conform to its manufacturing standards. **SILIKAL AMERICA** will replace or refund the purchase price of non-conforming products at the seller's option; such remedy being exclusive of all others and sole remedy available to the buyer. Buyer hereby expressly waives claim to additional damages. Any claim under this warranty must be made in writing within 7 days of discovery of noncompliance and no later than one year from the date of delivery of product. No representative, distributor or applicator of these products is authorized to modify product data or warranty.



**WARNING:** This product consists of amorphous silica dioxide, sulfonated naphthalene condensate, Portland cement and silica sand. Can cause skin and eye irritation. Silica sand can cause damage to the lungs. Dust masks should be worn when mixing.

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