



STRUCTURE GUARD®-FM TECHNICAL DATA SHEET

Rev. 01-2019



REPAIR MATERIALS

Typical Performance Characteristics

Tensile Strength

ASTM D638-14

4150 psi

Compression Strength

ASTM D695-13

9650 psi

Flexural Modulus

ASTM D790-15e2

8950 psi

Flexural Strength

Procedure A

437 ksi

Coating Pull Off Strength Test

ASTM D4541-09

Substrate Failure

MICRO-FIBER REINFORCED MASTIC

DESCRIPTION

Structure Guard®-FM is a 100% solids epoxy mastic used to protect new infrastructure and to rehabilitate existing, damaged, infrastructure. Structure Guard-FM is best applied using a trowel.

TYPICAL APPLICATIONS

- Manholes, wet wells, vaults & septic tanks
- Steel substrates
- Floor and wall penetrations/cracks
- Simple spot repair
- Extreme bonding to nearly all substrates
- Fast curing
- Easy workability
- ¼" build capability with no sag
- No mixing means faster application

SURFACE PREPARATION

Concrete/Brick: Substrate surface must be Hydro Blasted at 5000 psi, removing any loose concrete or other material. Must be free of grease and oil. ALL SURFACES MUST BE DRY, CLEAN AND FREE FROM OIL, GREASE AND OTHER CONTAMINANTS!

TECHNICAL INFORMATION

- Color — Green
- Solids — 100% (no solvents)
- Volatile Organic Compounds (VOCs) — 0
- Thickness — 125 to 250 mils per coat
- Number of Components — 2

CURE TIME (at 70°F or 21°C)

- Re-coat — 2 hours
- Water Contact — 4 hours
- Final Cure — 24 hours

RE-COAT

Must be abraded with the equivalent of 36 grit sand paper after 24 hrs.

PACKAGING

- Net Weight — 2.5 lbs (usable material)/cartridge
- 15 lbs (usable material)/case (6 cartridges)

STORAGE TEMP

70°F

SHELF LIFE

24 months unopened

FLASH POINT

N/A

APPLICATION

Theoretical Coverage

- Sq. ft. per gallon 250 mils 6.4 sq. ft.
- Sq. ft. per 6 cartridge case 250 mils 9.12 sq. ft.

POT LIFE

10 minutes at 70°F (21°C)

MIXING RATIO

2 to 1 in prepackaged cartridge. Use with 600 mil x 300 mil cartridge dispenser. Use only the material that the job requires, leaving virtually no wasted material.

APPLICATION EQUIPMENT

Directly applied to substrate from static mixing tip. Use trowel or putty knife to smooth material.

CLEAN UP

Acetone. REFER TO SAFETY DATA SHEET FOR SAFETY AND HEALTH INFORMATION.

ENVIRONMENTALLY SAFE

No harmful VOCs or odors. Disposable packaging and minimal waste.