

PRODUCT NAME

Flex-Top™ RM Roof Membrane



MANUFACTURER

Gemite® Products Inc.

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FEATURES

- Permanently seals moving cracks
- Totally waterproofs
- Excellent elongation and recovery at low temperatures
- High elongation at low temperatures
- No loss of elongation with time
- Long term durability and flexibility
- Superior adhesion
- Highly breathable
- High resistance to carbon dioxide diffusion
- Superior water ponding resistance
- One component system
- No “blend in” plasticizers used
- Elongation is built into the “molecular chain”
- Exceptional UV light resistance
- Dirt resistant = stays clean
- Excellent color stability and “hide”
- Excellent chemical resistance in acid environment
- Easily applied & economical
- Low sensitivity to substrate moisture content
- VOC compliant
- Not regulated by WHIMS or TDG

PRODUCT DESCRIPTION

Basic Use

Flex-Top RM is an exceptionally flexible waterproofing roof coating with very high resistance to water ponding (because of its internal cross-linking). Due to its high resistance to acid rain (does not contain any carbonate fillers) and most airborne pollutants it is an ideal roof coating in industrial environments. *Flex-Top RM* can be used over concrete, metal and asphalt roofs and over most existing roof coatings.

Composition and Materials

Flex-Top RM is a water based coating formulated with a modified acrylic copolymer, elastomeric emulsion, combined with inorganic extenders, pigments and additives providing mildew resistance and high durability. The unique polymer provides internal cross-linking in one component system. *Flex-Top RM* bridges over and seals substrate cracks due to its high elongation at ambient and very low temperatures. The superior durability,

weatherability (no-chaulking, no-leaching and color stability), combined with toughness, abrasion and chemical resistance are achieved by the unique cross-linking chemistry employed in the formulation. The polymer optimized formula is VOC compliant, highly breathable (fully releases water vapor from the substrate) and provides a high resistance to carbon dioxide diffusion.

Limitations

Do not apply when rain is imminent. Surface and ambient temperature during and 24 hours after the application must not be less than 7°C (45°F) or above 32°C (90°F). Fresh (green) concrete or cement plaster must be cured for at least ten (10) days prior to the application of *Flex-Top RM*.

Health and Safety

Flex-Top RM is non-toxic and nonflammable. If contact with skin occurs, wash with water. Harmful if digested. Keep the product out of reach of children. FOR INDUSTRIAL USE ONLY. Consult MSDS for additional information.

Color

Usually White, but other colors are also available.

Every effort is made to fill each order using the same batch number, but different batch numbers of the same color are occasionally sent to complete an order. It is the sole responsibility of the applicator to make certain that only one batch number is used on any one area.

Packaging

Flex-Top RM is one component, ready-to-use liquid material, packaged in 20 L (5.3 USG) pails.

Yield

Flex-Top RM covers approximately 1.67 m² per L @ 0.62 mm (64.2 ft. per USG @ 25 mils) thickness applied in two (2) coats.

The coverage's are only given as guideline and depend greatly on the roughness and porosity of the substrate, thickness of the application and application method used. Always apply minimum two coats. Carry out field application to determine the exact material quantity requirements.

Storage and Transportation

Shelf life of unopened containers is two years. Store in temperatures above 4°C (40°F). Must not freeze. Packaged 36 pails per pallet.

TECHNICAL DATA

Viscosity	6,200 cP	
Percent Solids by weight	68%	
Elongation at break (ASTM D370)	at 23°C	600%
	at -21°C	150%

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07540 Fluid Applied Roofing
09830 Elastomeric Coating

Dirt Resistance (24 months)	excellent
Water Vapor Diffusion Resistance, Engelfried-Klopper, $S_d < 3m$	1.1 m
Carbon Dioxide Diffusion Resistance, Engelfried-Klopper, R_b value = $0.3kg/m^2$	80 - 110 m
Water Penetration Resistance (over concrete block)	passes 160 km/h (98 mph) wind-driven rain test
Weatherability	unaffected by wetting, drying, freeze/thaw action or ultraviolet exposure

INSTALLATION

Current Guide Specification and Application Instructions contain additional information specific to each application and must be followed. Contact Gemite's Technical Service for information specific to your project.

Surface Preparation

The surface to be coated must be clean. Remove all dirt, efflorescence, loose particles, paint, cement scaling and other foreign matter which can interfere with the adhesion of the coating. Use high pressure waterblast (min. 4,000 psi), or sandblast for concrete surfaces.

Primers

Primer #2000 is used as an undercoat in applications of *Flex-Top RM* over galvanized metal roofs. Special primers may be required when applying *Flex-Top RM* over asphalt and other existing roof coatings. Contact Gemite's Technical Service.

Crack Treatment

Flex-Top RM can be applied directly over hairline cracks. Cracks above 2 mm (1/16 in) have to be pre-filled using a flexible caulking.

Joint (Seams) Treatment

All joints and seams, including parapets, flashing and protrusion areas must be treated before the application of *Flex-Top RM*. Apply a coat of *Flex-Top RM* approximately 12 cm (5 in) wide over the joint. Embed the strip of the *Reinforcing Fabric LW* into the first coat, and apply a second coat of *Flex-Top RM* to fully cover the *Reinforcing Fabric LW*. Minimum applied thickness should be 0.62 mm (25 mils).

Mixing

Do not add water to *Flex-Top RM*. Mix thoroughly, using a power drill and paint mixing paddle, before application.

Application

Repair and seal all delaminations, leaks and cracks, including parapets, flashing and any protrusions to prevent leaks.

Flex-Top RM is applied using airless spray equipment such as Graco or equivalent with a minimum 0.584 mm (0.023 in) tip. 85 cfm air compressor or greater, equipped with an air holding tank, is required. Short or medium nap roller can also be used to apply *Flex-Top RM*. Keep a wet edge.

Metal Roofs

Tighten, or replace fasteners as necessary. Treat all rusted areas with a rustproofing primer / coating. Apply a coat of *Flex-Top RM* over all fasteners. Spray apply a full coat of *Flex-Top RM*.

Concrete Roofs (Cast-In-Place, or Precast)

Apply two coats of *Flex-Top RM* over the entire roof. If a large amount of cracks exist *Reinforcing Fabric LW* should be embedded into the first coat of *Flex-Top RM*, before the application of the second coat.

Asphalt Roofs

Any larger deteriorated areas must be repaired using a roofing membrane and rubberized asphalt. Always carry out a bond test to determine adhesion (bond) of *Flex-Top RM* to a particular asphalt composition. Some asphalt roofs may have deteriorated, cracked and delaminated to such an extent that it may not be possible to repair them using *Flex-Top RM*. Apply two coats of *Flex-Top RM* over the entire roof.

Curing

Flex-Top RM will cure sufficiently by air drying in 12 - 24 hours, depending on temperature and relative humidity.

Clean Up

Clean tools and equipment immediately after use with water. For dry material use MEK or Xylol.

AVAILABILITY AND COST

Flex-Top RM is available worldwide. Contact Gemite for the name of the nearest Representative / Distributor and pricing information. When ordering, specify the color. The color suitability and pricing must be established by Gemite before order can be processed.

MAINTENANCE

None required. *Flex-Top RM* is self-cleaning. Surface dirt and dust can be easily cleaned using a detergent and water.

WARRANTY

A limited twelve (12) month Material Replacement Warranty is available. For complete details contact Gemite's Head Office.

TECHNICAL SERVICE

For technical advice on suitability of *Flex-Top RM* for specific application, specification assistance and application advice, contact Technical Service: USA 888-443-6483 or Canada 905-672-2020.

Short Specification

The roof coating will be *Flex-Top RM* a water borne, modified acrylic copolymer, one component, internally cross-linked resin system [specify color] as manufactured by Gemite Products Inc., [USA 888-443-6483] [Canada 905 672-2020]. It shall be applied in accordance with manufacturer's current guide specifications and application instructions. Contact Gemite Products Inc. for specification assistance and application instructions.