

PRODUCT NAME

Flex-Top RDM 200

Elastomeric, one component polyurethane, roof and traffic coating

MANUFACTURER

Gemite® Products Inc.

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FEATURES

- One component air cured system
- Aliphatic polyurethane topcoat
- Excellent resistant to an early rainfall or water ponding
- Low sensitivity to substrate moisture
- Highly flexible
- High build -up
- Excellent UV and thermal stability
- Exterior use
- Superior bond
- Most applications without a primer
- High solids
- Low toxicity
- Horizontal and vertical applications
- Fungus and mold resistant
- Spray, roller or brush applied

PRODUCT DESCRIPTION

Basic Use

Flex-Top RDM 200 is a highly flexible, moisture cure polyurethane, colored coating. It forms a highly durable, seamless membrane used in waterproofing of roofs, balconies, patios and other areas exposed to light and medium traffic. In some applications *Reinforcing Fabric LW* or a glass mat are applied either over the entire area or just over the substrate cracks or cold/control joints. *Flex-Top RDM 200* is suitable for exterior and interior applications. It exhibits resistance to early rainfall or water ponding and can be applied at low temperatures. In some instances, e.g., a high porosity or rough concrete substrates, it is recommended to use *Flex-Top RDM 100* Primer. Please see the products data sheet for this material. Some surfaces may require different types of primers.

Composition and Materials

Flex-Top RDM 200 is one component, air cured aliphatic polyurethane, high build topcoat.

Limitations

The air and substrate temperature must be above 25°F (-4 °C), and the ambient temperature must be above dew point. The substrate must not be frozen. There is no limitation on relative humidity, but the surface must be free of visible water. Resistance to rain water is almost immediate, but surface pockmarking will occur if rained within 3-4 hours after the application. After 3-4 hours, depending on relative humidity and temperature, no pockmarks are formed and the coating is resistant to rainfall or water ponding. After that the coating is unaffected unless it is frozen.

Health and Safety

Avoid contact with skin and eyes. May cause irritation and skin and lung sensitization. If contact with skin occurs, clean off immediately with a rag and wash with soap and water while removing contaminated clothing. Call physician if irritation persists. If eye contact occurs, flush with running water for at least 15 minutes. Combustible in the liquid state. Do not use near naked flame or on very hot surfaces and do not smoke when using *Flex-Top RDM 200*. Ground containers when pouring. Use only in well ventilated areas and avoid breathing vapor. Wear protective equipment including gloves, spray masks and goggles, especially when working overhead. For serious exposure by inhalation, remove victim to fresh air and obtain medical attention as need. If ingested do not induce vomiting. Obtain medical attention immediately. Keep product out of reach of children. **FOR INDUSTRIAL USE ONLY.** Consult MSDS for additional information.

Color

White, Light Grey and Steel Grey. Custom colours available.

Packaging

Flex-Top RDM 200 and *Flex-Top RDM 100 Primer* are packed in 1 US G or 5 USG cans.

Yield/Coverage

Flex-Top RDM 100 Primer covers approximately 6.1 - 7.3 m²/L (250 - 300 ft²/USG) depending on the porosity. *Flex-Top RDM 200* covers 5.1 -12.2 m²/L (210-500 ft²/USG), depending on the surface profile (roughness) of the surface. The higher buildup on horizontal or vertical surfaces, up to 35 - 40 mils (0.875-1.00 mm) wet film thickness is possible. The coverage at that thickness is 1.12 - 0.98 m²/L(46-40 ft²/USG).

Storage and Transportation

Flex-Top RDM 200 and *Flex-Top RDM 100 Primer* have as a shelf-life of 8 months when stored in unopened containers on pallets in a cool dry area above 32 °F (0°C).

Gemite Products Inc.
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TECHNICAL DATA

Viscosity @ 25°C (77°F)	100-110 KU
Flame Spread	Class 1, will not support combustion
Overcoating	Within 24 hours
Toxicity	non-toxic pigmentation and inert in dry film
Drying Times at 68°F (20°C) and 50% RH recoat	Touch 2-3 hours Full Cure 4-6 days The cure times depend on the temperature and relative humidity. <i>Flex-Top RDM 200</i> requires a minimum relative humidity of 20%.
Weight	11.54 lbs/USG(1.38 g/cm ³)
Solids by volume	71%
Solids by weight	78%
Tensile strength	1100 psi (7.58 MPa)
Elongation at Break	250%
Service temperature	-58 °F(-50°C) - +176°F(80°C)
Cold flexibility (200 mm Mandrel)	Flexible at -25°C (-13°F)
Temperature Resistance	continuous 150°C (300°F) short periods 200-250°C (390-480°F)
Thinner	<i>Flex-Top RDM 200 Thinner</i>
Solvent Type	PM Acetate
VOC	2.35 lbs/USG (282 g/L)
Flash Point	105°F (40.5°C)
Chemical Resistance	Resistant to gasoline, fuel oil, mineral spirits and weak to moderate solutions of acids, alkalis and detergents

INSTALLATION

Current Guide Specifications and Application Instructions contain information specific to each application and must be followed. Gemite's Technical Service must be consulted before starting a project to ensure that the correct surface cleaning, preparation and application procedures are followed. Contact Gemite Technical Service for detail information.

Surface Preparation

Remove all loose material, dirt and existing paint by dry or wet sandblast, or high pressure waterblasting (min 3,500 psi). Repair the surface, if necessary, using *Gem-Plast TC* (up to 6 mm/1/8") or *Fibre-Patch OV*. All surface voids and openings (especially masonry surfaces) must be filled and surface must be smooth prior to the application of *Flex-Top RDM 200* to provide the necessary protection. The concrete substrate must be dry prior to application of the primer and coating.

Mixing

Application

Flex-Top RDM 200 is a minimum two coat system, consisting of *Flex-Top RDM 100 Primer* and *Flex-Top RDM 200*. Depending upon the application more coats may be necessary.

Flex-Top RDM 200 and *Flex-Top RDM 100 Primer* can be applied by brush, roller and airless spray to most surfaces. The cracks should be treated with a strip of the Reinforcing Fabric LW or a glass mat.

Use a solvent resistant rollers with a long pile..

Spray applications require a competent and experienced applicator using an airless spray pump (e.g. Graco King 45-63:1). For spray applications up to 15% the *Flex-Top RDM 200 Thinner* or MEK may be used. Re-coat time is 4 - 6 hours under normal conditions.

Curing

Flex-Top RDM 200 should be allowed to cure for at least 4-6 days to reach its full strength, but it can be walked on much earlier, typically over night.

Clean Up

All tools and equipment should be cleaned with *Flex-Top RDM 200 Thinner*, Toluene, Xylene or MEK immediately after use.

AVAILABILITY AND COST

Flex-Top RDM 200 is available worldwide. Contact the manufacturer for the name of the nearest Representative/Distributor and pricing information.

MAINTENANCE

Not required

WARRANTY

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

TECHNICAL SERVICE

For advice on suitability of *Flex-Top RDM 200* for specific application, Specification assistance and Application Instructions, contact Technical Service: USA 888-443-6483 or Canada 905-672-2020.

Short Specification

The protective coating will be urethane based *Flex-Top RDM 200*, manufactured by Gemite Products Inc., [USA 888-443-6483] [Canada [905-672-2020]. It will meet all the Technical Data specified in the current *Gem-Coat UE 100* Product Data Sheet.