



TECHNICAL DATA

MANUS-BOND 78-RC “Xtreme Roof and Wall Coating”

PRODUCT DESCRIPTION:

Manus-Bond 78-RC Xtreme Hybrid Reactive Polymer Based Roof and Wall Coating is a one-component, low-VOC, highly reflective, flexible elastomeric coating engineered to provide excellent adhesion and protective barrier for wide range of architectural surfaces and roofing substrates. 78-RC flows smoothly and easily onto roofing substrates, providing a durable and weather-stable coating. 78-RC “low viscosity-controlled flow” technology offers a fast and efficient application using trowel, brush, roller, or sprayer to create a uniform thickness coating. This product is UV resistant and does not contain isocyanates.

TECHNICAL DATA:

PROPERTY	Standard Testing	TYPICAL VALUE ¹
Weight/Gallon		11.2 lbs./gal
General Odor		Light earthy, low odor
Viscosity	ASTM D2196	13,000 to 25,000 centipoises
Solid Content	ASTM D2369	>93%
Skin Time		20 to 45 Minutes
Cure Time		Full Cure 14 days
Tensile Strength	ASTM D412	260 psi (1.77 MPa)
Elongation	ASTM D412	120 %
Surface Adhesion (Various Surfaces)	1 Inch airplane cloth embedded in coating, pull 12"/min	>3 lbf/in (Cohesive)
Tear Resistance	ASTM D624	57 lbf./in.
Shore Hardness “A”		>30
Water Swelling (%)		<5
Permeance	ASTM D1653/E96	9.0 perms
Thermal Emittance-Initial		0.89
SRI Value-Initial		101
Reflectance-Initial	ASTM C1549	0.801
Dirt Pick Up Resistance	Fe ₂ O ₃ dusting and wash	Reflectance >0.69
UV and Weather resistant		Excellent
Low Temperature Flexibility	ASTM D522	Pass -50°F
Bleed Through Resistance		Less than Silicone

¹Above values are typical values for the material, but not intended for use in specifications. Field conditions may yield different results.

TYPICAL USAGE:

Manus-Bond 78-RC Xtreme Roof Coating is engineered with low-viscosity, controlled-flow to be used for coatings on horizontal and vertical roofing, walls, and architectural surfaces. It may be used on: single ply, asphalt, spray polyurethane foam, concrete, metal, wood, and other common construction and roofing materials.

APPLICATION GUIDELINES:

- **Applied Surfaces:**

Manus-Bond 78-RC Xtreme Roof Coating can be applied to a large range of roofing substrates including Concrete, Metal, Wood, single-ply membranes (TPO, EPDM, PVC, and Hypalon), asphalt, common building materials and to itself. Some of the elastomeric roof membranes may need to be primed for best adhesion. Adhesion testing on elastomeric roofing membranes is recommended before applying.

- **Surface Preparation**

All surfaces must be clean, dry, and free from damage, loose contaminants, dirt, dust, oil, grease, mist, frost, and mildew. Power washing the surface to remove contaminants before applying the coating is recommended.

- **Application Equipment and Coverage**

Manus-Bond 78-RC Xtreme Roof Coating can be applied by brushing, rolling, or spraying using brush, trowel, roller, notched squeegee, or sprayer. 78-RC works with most commercially available spray equipment that can deliver a minimum pressure 4,000 psi at spray tip and at least 2.0 gallons per minute to cover 1 to 1.5 square at 15 to 20 mil thickness coating. This coverage rate is approximate and used only as guideline. Exact coverage may be different depending on the surface roughness, coating thickness, and other factors. For the granules finish option, the granules may be applied while the coating is still wet. Typical application rate is approximately 40 pounds per 80 to 100 square feet. Follow the granular supplier coverage recommendation and test compatibility of granular before using.

- **User Evaluation**

Testing for compatibility and adhesion on small area of the surface must be performed by the user. The user shall determine suitability of the product for its intended use. Testing must also be performed to determine the actual coverage rates necessary to achieve desired mil thickness.

PRODUCT HANDLING AND STORAGE:

Manus-Bond 78-RC Xtreme Roof Coating cures by reacting with air moisture; the skin and cure time is dependent on the humidity and temperature of the surrounding. The product must be stored in tightly sealed containers in dry area out of direct sunlight and high heat. Open containers only when ready for use. Once the container is open and exposed to the atmosphere, a skin will start to form at the surface over time. If this occurs, remove the skin from the surface before using the material.

PACKAGING AND COLORS:

Manus-Bond 78-RC Xtreme Roof Coating is available in 1-gallon (10.8 lbs.), 5-gallon plastic pail (54 lbs.) and 55-gallon steel drum (540 lbs.) containers. The standard color is white. RC also can be available in grey, tan, and other colors upon request.

PRECAUTIONS:

Use with adequate ventilation. Inhalation of vapor during application and cure may cause eye or throat irritation. In case of contact with eyes, lips, or mouth, flush thoroughly with water. If irritation persists, consult a physician. Avoid repeated, prolonged contact with skin. See SDS for additional information. **KEEP OUT OF REACH OF CHILDREN.**

TECHNICAL SERVICE:

Technical representatives are always available to help. Please contact the Technical Service Representative with your questions or requests for specific applications.

LIMITED WARRANTY

Any goods proved defective will be replaced or the purchase price refunded. The limited warranty described herein is in lieu of any other warranty, expressed or implied, including any implied warranty of merchantability or fitness for a particular use. The user shall determine suitability of the product for its intended use. Liability for any incidental or consequential damage or loss is excluded. The user assumes all risks of the product's use, handling and storage.



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