

SILICONE ROOF COATING EXY FLEX

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Product Description

EXY FLEX 3500 silicone roof coating is a liquid applied silicone coating that is an excellent candidate to consider for use in roofing applications as the weathering coat over roofing materials such as spray applied polyurethane foam, water-borne coatings (acrylic), PVC membranes, and galvanized/coated metals. EXY FLEX 3500 silicone roof coating forms a durable, breathable, watertight and weatherproof barrier that is extremely resistant to degradation from natural weathering.

Typical Performance Properties

- | **High Build Formulation** – Allows for single coat application and hangs on peaks without sagging
- | **Unaffected by Standing Water** - Ponding water resistant
- | **Silicone Durability** – Once cured, silicone rubber exhibits excellent long-term resistance to natural weathering including: extreme temperatures, ultraviolet radiation, rain and snow, with negligible change in elasticity.
- | **Flexible Application** – EXY FLEX silicone roof coating is a single component liquid material that requires no mixing and can be applied by spray, roller or brush.
- | **Ease of Use** – Product viscosity allows for easy spraying with most commercially available spray equipment. Once applied, a high static viscosity allows the material to remain in place until full cure is achieved even in areas of high pitch, vertical walls or parapets.
- | **Ample Work Life** – Long work life provides sufficient time for treatments such as application of granules.
- | **Accelerated Cure Rate** – Quickly attains its weather resistant properties.
- | **Low Temperature Storage** – EXY FLEX silicone roof coating can be stored in unheated warehouses during the cooler months without the risk of freezing.

Product Data

<u>Property</u>	<u>Value</u> ⁽¹⁾	<u>Test Method</u>
Permeance	9.3 perms	9.3 perms ASTM E96 (BW)
Solids Content, Volume	90 %	ASTM D1644-01
Weight	91 %	
Tack Free Time	20 - 30 minutes	ASTM D3960
Skin-Over Time	10 - 15 minutes	WPSTM C-560
Viscosity	22,000 cp	ASTM D2196
Tensile Strength	204 psi (1.41 MPa)	ASTM D 412
Elongation	542%	ASTM D 412
Hardness, type A indentor	36	ASTM D 2240
VOC	<24 q/L	EPA Method 24

(1): Average value. Actual value may vary.

Packaging

EXY FLEX silicone roof coating is available in (23.6 kg), (18.9 L) plastic pails and (245kg), (208 L) steel drums.

Colors

<u>Grade</u>	<u>Color</u>
EXY FLEX 3502	White
EXY FLEX 3504	Medium Grey

Storage

EXY FLEX silicone roof coating should be stored in unopened containers and protected from exposure to direct sunlight and high heat. Store containers below (43°C) to maintain full shelf life. EXY FLEX silicone roof coating can be stored in unheated warehouses during the cooler months without the risk of freezing.

INSTALLATION

EXY FLEX silicone roof coating can be applied over many types roof systems. Please contact the specific roof system manufacturer for details related to the underlying roof system being coated.

Surface Preparation

EXY FLEX silicone roof coating can be applied to itself and to most other silicone roof coatings as well as a variety of roofing materials, including: spray applied polyurethane foam, waterborne coatings (acrylic), PVC membranes, galvanized/coated metal, and common parapet/coping materials as well as many others. Asphaltic substrates such as; modified bitumen, smooth BUR, and granulated cap sheet may require Asphalt Block. Roof surfaces must be clean, dry, structurally sound and free of loose particles, dirt, dust, oil, frost, mildew and other contaminants. Damage to the underlying roof system, such as cracks, openings, holes, etc. should be properly repaired prior to application. The installer should verify that acceptable adhesion is attained to the existing roofing materials to be coated prior to application of the full coating. Contact HONTER Technical Services for recommendations on proper cleaning methods.

Application Guidelines

EXY FLEX silicone roof coating should be applied as received and dilution with solvent is not recommended. If settling in the package has occurred, stir or shake the material prior to use.

Care should be taken to avoid overspray onto adjacent building materials, vehicles, plants, etc. Overspray can be cleaned up before it has cured by wiping alternately with solvent and dry rags. Cured material can be removed from surfaces with a razor blade, or scrubbed off with synthetic abrasive pads and solvent. To control overspray, avoid spraying in winds that may cause overspray drift. Surfaces not intended for coating should be masked or covered.

Application Temperature

Ambient temperature should be above (4°C). Lower temperatures will lengthen the skin over, tack free and ultimate cure time. Frost and/or moisture can also develop which may interfere with adhesion of the coating to the substrate. As temperatures increase, the cure and working time of the coating will decrease which will shorten the time for application of granules.

Application Equipment

EXY FLEX silicone roof coating can be applied by spraying, rolling or brushing. If application with rollers is desired, solvent resistant phenolic core rollers are suggested. If spray application is desired, EXY FLEX silicone roof coating works in most commercially available spraying equipment. Contact Honter Company for equipment recommendations.

Cleanup of spray equipment containing uncured material may be accomplished by flushing with mineral spirits (or other suitable solvents). EXY FLEX silicone roof coating should not be left in pumping equipment and hoses for prolonged periods unless equipment contains moisture lock hoses, fittings and seals. EXY FLEX silicone roof coating cures by reacting with moisture. Equipment without moisture lock hoses, fittings and seals may transmit sufficient moisture vapor to gradually form cured material on hose walls and at unsealed connections. This may result in increasing operating pressures and material flow restriction.

Coating Vertical Surfaces

When coating vertical wall surfaces other than parapets and walls associated or part of the roofing system being coated, EXY Shield silicone architectural coating is recommended. Contact a HONTER Company representative for additional information.

PATENT STATUS

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

LIMITATIONS / PRECAUTIONS

EXY FLEX silicone roof coating is not intended nor recommended for use on pedestrian or traffic bearing surfaces. Inclement weather may damage uncured EXY FLEX silicone roof coating; therefore, application of coating should not proceed if heavy rain, hail, etc, is expected within 24 hours of applying EXY FLEX silicone roof coating.

EXY FLEX silicone roof coating should not be applied to:

- | Unprepared surfaces including but not limited to those that are wet, dusty, oily, mildewed, heavily chalked, blistered or otherwise structurally unsound.
- | Cold storage roofing application without vapor barrier, cryogenic tank applications. Not designed for primary water containment.
- | Building materials that might bleed oil or solvents. These include, but are not limited to, certain vulcanized rubber products, tapes, failed sealants, some caulking compounds and asphaltic/mastic materials unless appropriate preparation or primers are used.
- | Totally confined spaces, as the coating requires ventilation to allow for evaporation of solvent and atmospheric moisture for completion of cure.
- | Surfaces where adhesion has not been verified by adequate testing.

Customers must evaluate HONTER Performance Materials products and make their own determination as to fitness of use in their particular applications.

PRODUCT SAFETY, HANDLING AND STORAGE

Customers considering the use of this product should review the latest Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at upon request, from any HONTER COMPANY. Use of other materials in conjunction with HONTER COMPANY sealants products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.



coating system

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