

Enduris™ 3500 E+

100% Silicone Roof Coating

Product Description

Enduris 3500 E+ roof coating is a high performing protective barrier for a variety of roofing substrates. Upon cure, it forms a durable, breathable and weatherproof roofing membrane that is highly resistant to degradation from UV and natural weathering.

Key Features and Typical Benefits

- **Durability** - Exhibits excellent long-term resistance to natural weathering including: extreme temperatures, ultraviolet radiation, rain and snow.
- **Unaffected by Standing Water** - Ponding water resistant.
- **Ease of Use** - Can be applied with common airless equipment, roller or brush.
- **1K-Product** - No mixing needed, hence no loss of time and material. Crosslinking with humidity from air.
- **Application as low as -17°C** - Can be applied at temperatures as low as -17°C. Allowing a long application season and ease of storage.
- **Storage & Shelf Life** - Silicone roof coating can be stored in unheated warehouses during cooler months without the risk of freezing. Shelf life is 24 months from the date of manufacture when stored properly. Product may be stored at temperatures up to 43 °C during hotter months without affecting shelf life.

Potential Applications

Enduris 3500 E+ roof coating is an excellent product to consider for renovation of structurally sound roofing including: single ply (PVC, TPO/FPO, EPDM), bitumen (SBS/APP), PU and PMMA-coatings, PU-foam, metal, cement fibre and other roofing substrates. Perform an adhesion test on each surface type to ensure a secure bond has been made.

Colors

Enduris 3500 E+ roof coating is available in the following colors:



White



Medium Grey



Medium Black

Packaging

Available in plastic pails (23 kg), metal drums (245 kg) and plastic totes/IBC's (1225 kg).

Typical Physical Properties

Typical physical property values of Enduris 3500 E+ roof coating are set forth in the table below.

Typical Physical Properties - Supplied

Property	Value(1)	Test Method
Solids content, vol%	95	EN ISO 3251
Solids content, wt%	94	Modified
Tack Free Time	20-30 minutes	EN ISO 7390
Skin Over Time	10-15 minutes	WPSTM C-560
Viscosity	22,000 cP	EN ISO 3219
Tensile Strength	1,41 MPa	EN ISO 527
Durometer, Shore A	36	EN ISO 48
VOC	<24 g/l	EPA Method 24
Solar Reflection ⁽²⁾	88%	EN ISO 9050
Emission ⁽²⁾	0.9	ASTM C1271
Solar Reflection Index ⁽²⁾	111	EN ISO 52018-1
Water Vapor Resistance Sd	1,5 meter	EN 1931
Tear Resistance	32 lbf/in	ASTM D624
Low Temp. Flex	Pass	EN ISO 1519
Resistance to Wind Driven Rain	Pass	TT-C-555B

1) Typical properties are average data and are not to be used as to develop specifications.

2) Initial values of Enduris 3502 white. After weathering values are lower.

Installation

Surface Preparation

Enduris 3500 E+ roof coating can be applied to itself as well as a variety of roofing materials and substrates including: single ply membranes (PVC, TPO/FPO, EPDM), bitumen membranes (SBS, APP), spray-applied polyurethane foam, metal, concrete, and common parapet/coping materials.

Substrates such as bitumen membranes may require bleed blocker to prevent bleeding of bitumen oils to the roof surface.

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. Saturated substrates must be removed and repaired appropriately.

Verify that suitable adhesion can be attained to all existing roofing materials to be coated prior to application of the coating. It is recommended that a test patch be cleaned and coated to verify the effectiveness of the cleaning method and adhesion to the surface(s).

Application Guidelines

Enduris 3500 E+ roof coating should be applied as received and dilution with solvent is not recommended.

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 steel wool or synthetic abrasive pads and solvent. To prevent overspray, do not spray when windy. Surfaces not intended for coating should be masked or covered.

Silicone roof coating should be sprayed or rolled ensuring uniform build and thorough coverage and can be applied in one coat. If applying in multiple coats, allow adequate time between each coat for the coating to cure before applying additional coat. Final cured film thicknesses must be free of voids, pinholes, cracks or blisters.

Application Temperature

Enduris 3500 E+ roof coating can be applied throughout the year as long as the substrates being coated are completely dry. Frost and/or moisture will interfere with adhesion. Lower temperatures and lower relative humidity will lengthen the skin over, tack free and ultimate cure time and may require an overnight cure in winter months to allow the top coat application to proceed (film build may not be sufficient to allow walk over). Higher temperatures and higher relative humidity will accelerate the cure rate and decrease the open time of the coating.

Ambient temperature shall be 3°C above dew point during application. Contact manufacturer if applying to substrates over 50°C.

Application Equipment

Enduris 3500 E+ roof coating can be applied by spraying, rolling or brushing. Spray application equipment shall be airless and have a minimum of 250 bar at the spray tip and flow of at least 8 liters per minute. Always use components rated for the required pump pressure. Hoses should be vapor lock type for prevention of moisture contamination. Contact Momentive for equipment recommendations.

Clean spray equipment by flushing several times with mineral spirits (preferably without aromas, for longer packing life and lower hazard status). DO NOT USE water or alcohol based solvents. Enduris 3500 E+ roof coating cures by reacting with moisture, thus it should not be left in pumping equipment and hoses for prolonged periods.

Application Thickness

Please refer to Silicone roof coating warranty chart for more details.

Coverage rates are approximate. Irregular surfaces and other factors may yield different coverage rates. Perform testing to determine actual coverage rates necessary to achieve required layer thickness.

Granules

Granules may be installed into topcoat while it is still wet. Typical application rate is 2 kg per m². Contact the granule supplier or manufacturer for guidelines on suitable granule size and rate of granule coverage.

Coating Vertical Surfaces

When coating vertical wall surfaces such as parapets and walls directly associated with the roofing system Enduris Liquid Flashing is recommended in order to build required layer thickness in one pass.

Uncured Product Storage

Enduris 3500 E+ roof coating should be stored in sealed containers in a dry area, out of direct sunlight and high heat. Do not open containers until ready for use and store containers at or below 43°C to maintain full shelf life. Silicone roof coating generally can be stored in unheated warehouses during the cooler months without the risk of freezing.

Silicone roof coating reacts with atmospheric moisture to cure. Once containers are open and exposed to the atmosphere, a skin will form on the material over time. The formation of skin will be negligible in winter months but can form quickly (minutes) under hot and humid conditions. Cured skin that has formed on the top of the material must be removed or screened from the bulk material, as it may contribute to pump clogging. Take appropriate precautions to cover open containers during use.

Applicable Standards

- **EOTA ETA 18-0472** – Liquid Applied Waterproofing on the basis of polysiloxane.
W3 – 25 years expected working life
S – Severe Climatic zone
P2/P1 – For maintenance traffic
S1 to S4 – All slopes
TL4 – Lowest surface application temperature
TH4 – Highest surface application temperature
- **CEN/TS 1187 – EN 13501-5**
Broof T1, T2, T3 and T4 – External fire performance for all EU countries
- **EN 13501-1 / Euroclass** – Reaction to fire Class E.
- **ASTM D6694** – Standard Specification for Liquid-Applied Silicone Coating Used in Spray Polyurethane Foam Roofing Systems. Result: Pass
- **ASTM E84** – Standard Test Method for Surface Burning Characteristics of Building Materials. Result: Class A (Flame Spread Index 10, Smoke Developed Index 185).

Limitations

Silicone roof coating should not be considered for:

- Use on pedestrian, deck or frequent traffic bearing surfaces.
- Cold storage roofing application without vapor barrier, cryogenic tank applications.
- Not designed for primary water containment.
- Unprepared surfaces including but not limited to those that are wet, dusty, oily, mildewed, heavily chalked, blistered or other-wise structurally unsound.
- 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. Consult Momentive for primer recommendations.

- Surfaces where adhesion has not been verified.
- Inclement weather may negatively affect uncured Silicone roof coating by displacement of uncured material; therefore, application of coating should not proceed if heavy rain, hail or snowfall is impending or expected within 24 hours of application.
- Silicone roof coating requires atmospheric moisture for propagation of cure thus it is not suitable for use in totally confined spaces.

Technical Services

For additional technical resources, please contact your local customer service center. (See Customer Service Centers section herein for contact information.) Any technical advice furnished by Momentive or any representative of Momentive concerning any use or application is believed to be reliable, but Momentive makes no warranty, expressed or implied, of suitability for use in any application for which such advice is furnished.

Customer Evaluation

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

Product Safety, Handling and Storage

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

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.

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