

EnerFlex SPX 300 is ENERCON's next-generation 100% silicone roof waterproof coating engineered for superior adhesion, weather resistance, and ponding water protection – delivering unmatched flexibility and long-term performance for residential and commercial roofs under extreme weather conditions. EnerFlex SPX 300 new formulation offers dirt pickup resistance, dried film resists algae and fungal growth, which keeps coating white & bright and last longer.

KEY FEATURES

- Rain safe in 15 minutes
- 100% Silicone moisture cure technology
- Dried film resists algae and fungal growth
- Excellent adhesion and ponding water resistance
- Dirt pickup resistance formula - Stays whiter and brighter

APPLICATION GUIDELINES

Applicable Substrates:

EnerFlex SPX 300 can be directly applied to almost all types of substrates, such as Aged asphalt roofs (Built-Up Roofing BUR and Modified Bitumen MB), Single-ply membranes (TPO, EPDM, PVC), Metal, Concrete & Spray Polyurethane Foam (SPF) roofs, and Aged fiberglass and previously coated roofs.

Preparation:

The surface must be clean of loose particles, dirt, dust, oil, etc. EnerFlex SPX 300 should generally be applied on dry and sound surfaces. The substrate should be pressure washed (minimum 2,000 psi) with a non-filming detergent such as TSP prior to coating application. Allow the roof to dry completely before application.

A moisture content of less than 5% is generally recommended in concrete surfaces. Old coatings should ideally be removed if they are loosely held onto the existing surface. All joints, cracks, and extrusions should be sealed using EnerSil Mastic - 100% Silicone Sealant or EnerSeal Tape prior to the application of EnerFlex SPX 300.

EPDM roofs may require aggressive power washing and need to be cleaned twice to remove all surface contamination. Treat mildew or mold during the cleaning process.

Priming:

EnerFlex SPX 300 can mostly be applied without the use of a primer. However, it is recommended to use Ener-Prime 111 as a bleed-block primer on top of asphalt base surfaces (BUR/Modified Bitumen) or Ener-Prime 222 as an anti-rust primer for rusted metal sheets. Always perform adhesion tests over smooth MB/BUR, EPDM, TPO, PVC, existing coated roofs, and metal roofs. If the adhesion test result is not satisfactory (less than 2 lbs pull strength), use an appropriate primer and repeat the test.

Mixing:

Mix well prior to use, as the coating may settle during storage. Mixing can be done using a drill or a mixing paddle. Use a clean and minimum 3" diameter mixing paddle for 5-gallon pails, or hand mix with a suitable and clean paddle until consistent viscosity is achieved. Do not thin the product.

TECHNICAL PROPERTIES

Characteristics	*Values
Solids by Volume	94% ± 3
Solids by Weight	94% ± 3
Tensile Strength	320 psi
Elongation at Break	280%
Hardness – Shore A	42
Water Vapor Permeability	4.6 perms
Reflectivity (Initial / Aged)	87 / 84
Emissivity (Initial / Aged)	0.9 / 0.9
SRI (Initial / Aged)	110 / 106
VOC	10 g/L
Touch Dry	1-2 hours

*Above values are nominal test values

Application:

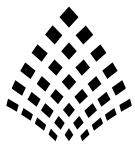
EnerFlex SPX 300 can be applied using a 1/2" to 1" nap roller – Dip roller directly into pail and apply, or pour product onto flat roof surface and roll out evenly, Soft brush, Airless spray gun – use airless spray machine capable of producing a minimum 3,500 psi at spray gun tip. EnerFlex SPX 300 can be applied in a single coat application. For second coat application, apply between 6-24 hours from first coat application. Coating must be evenly applied and pin-hole free. Apply each additional coat in a perpendicular direction to the previous coat. Mineral spirits or Naphtha can be used to clean spraying equipment after use. To create walkways, coarse quartz particles with round edges can be sprinkled on top of the freshly applied topcoat. EnerFlex SPX 300 is 100% UV and color stable.

Airless Spray Equipment Specifications

- **Pump:** Minimum 3 gallons per minute output, fed by 5:1 transfer pump
- **Hoses:** Minimum 3/4" I.D. with adequate working pressure rating
- **Spray gun:** High pressure (5,000 PSI) with reverse-a-clean spray tip
- **Tip:** Minimum orifice 0.030 with 50° fan tip
- **Mixer:** Minimum 3/4 horsepower air-operated mixer

Weather Conditions:

Rainy weather should be avoided. It is recommended to carry out EnerFlex SPX 300 application between temperatures 35°F to 120°F (2°C to 49°C) and relative humidity lower than 70%. The surface temperature must be at least 6°F (3°C) above the dew point and rising. Do not apply if rain is expected within 15 minutes of application. Application at temperatures lower than 50°F (10°C) and less than 35% relative humidity will typically result in slower cure times.



Coverage:

Coverage of 2-3 gallons per square (0.8-1.2 L/m²) is recommended and can be achieved in a single coat. Minimum recommended Dry Film Thickness (DFT): 32 mils. However, consumption may vary depending on surface texture, porosity, and specific application requirements. Textured surfaces may require additional coats to achieve the minimum DFT. Coverage rates are theoretical and do not account for material loss due to spraying, surface texture, etc. Thicker dry film results in better performance and longer coating life.

Shelf life:

24 months in sealed container and when stored in dry, cool and covered area

Colors:

White & Grey

Packaging Size:

4.75 Gal

PRECAUTIONS

Storage & Handling:

Protective clothing, gloves, and eyewear should be used during application. Do not heat the pails or place the pails near heated surfaces. Keep the pails sealed when not in use. Material must be stored in a shaded area with temperatures between 50°F and 85°F (10°C to 29°C). Storage at temperatures outside these conditions or at relative humidity over 65% will reduce shelf life. Ensure to tightly seal the pail after opening and when not in use. Opened pails should be used as soon as possible. If a skin forms at the top of opened pail, remove prior to mixing material. When transporting this product, ensure that the lid and openings are tightly sealed. Do not allow products to tumble or shift as this may cause leakage. Do not transport on passenger seats or inside the passenger compartment of any vehicle. This product is not recommended for interior use. Building occupants should be warned of spray operations in process. Installers should exercise caution during spray processes to avoid falls caused by stepping into slippery wet coating. Use extreme caution when walking or working on silicone coated surfaces. Wet surface may get extremely slippery and can create a fall hazard resulting in injury or death.

WARRANTY & DISCLAIMER

We warrant that this product shall be free of any defect in material at the time of purchase. This warranty does not extend to any defect or failure caused by misuse and/or incorrect application.

Limitation of Liability: In the event of a defect or failure falling under this warranty, Buyer's sole remedy shall be refund of the purchase price or replacement of the defective material, at Seller's option. Under no circumstances shall Seller be liable for any losses or damages caused by this product, whether direct, indirect, special, incidental, or consequential damages, whether based on contract, or any other legal theory. To the extent allowed by local law, except as set forth below, seller makes no warranty of merchantability or fitness for any particular purpose with respect to the goods herein sold. There are no other warranties of any kind express or implied beyond the terms set forth on the face hereof. No employee or agent of seller is authorized to alter the terms hereof.

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