



**EnerFlex-SB 100 Silicone Roof Waterproofing is a single component, moisture cured, highly reflective roof coating, which cures to form a highly elastic, impermeable, and monolithic membrane. ENERFLEX-SB 100 creates a shield that protects against ponding-water and acts as Cool Roof coating by reflecting UV & sunlight.**

### KEY FEATURES

- Ponding water resistant
- Dries quickly after application
- Cool Roof – Reflects 90% sunlight
- Resistant to UV, rainwater, and frost
- Adhesion to almost all types of substrates
- Crack-bridging & elastic properties even at -30°C

### APPLICATION GUIDELINES

#### Applicable Substrates:

ENERFLEX-SB 100 can be directly applied to almost all types of substrates such as metal, concrete, wood or on top of any existing coatings such as, TPO, EPDM, Singly Ply membrane, Smooth or Granulated membrane or PU Insulation Foam. ENERFLEX-SB 100 is also suitable for waterproofing of tanks, terraces, and planter-boxes

#### Preparation:

The surface must be clean from loose particles, dirt, dust, oil, etc. ENERFLEX-SB 100 should generally be applied on dry and sound surfaces. Old coatings should ideally be removed if they are loosely held on the existing surface. The substrate should be pressure washed prior to coating application. A moisture content of less than 5% is generally recommended in concrete surfaces. All joints, cracks and extrusions should be sealed using ENERSEAL-XB or ENERSEAL Tape – Nano Technology prior to the application of ENERFLEX-SB 100.

#### Priming:

ENERFLEX-SB 100 can mostly be applied without the use of a primer. However, it is suggested to use Ener-Prime VL as bleed-block primer, before applying EnerFlex SB 100 on top of existing asphalt-based or existing bitumen surface. An adhesion test is recommended generally before application to determine the requirement of primer to improve adhesion.

#### Mixing:

Do not thin the product. Coating may settle during storage. Mix well prior to and during use with a drill or a mixing paddle. Use a minimum 3" diameter mixing paddle or hand mix with a suitable and clean paddle until consistent viscosity is achieved.

### TECHNICAL PROPERTIES

Characteristics	Values
Density	1.24 g/cm <sup>3</sup>
Solids by Weight	71%
Solids by Volume	71%
Viscosity	2,000-4,000 cps
Tensile Strength	320 psi
Elongation at Break	350%
Hardness Shore A	55
Water Vapor Permeability (73°F & 75% RH)	0.5 g/m <sup>2</sup> /hr
Reflectivity (initial)	86
Emissivity	89
SRI	108
VOC	280 g/l
Temperature Variation Resistance	-30°C to +80°C
Film Formation Time	2.5 hours

#### Application:

ENERFLEX-SB 100 can be applied using nap roller, soft brush, or airless spray gun. In case the primer is used, the first coat of ENERFLEX-SB 100 can be applied not earlier than 1 hour and not later than 48 hours from the primer application. The drying time is significantly affected by the environmental conditions' temperature and humidity (see weather conditions). In case of application using airless spray gun, Solvent D 40 can be used to clean the tools and the equipment soon after the coating application. Once over sprayed material is cured, it can only be removed mechanically. To make walkways, coarse quartz particles can be sprinkled on top of freshly applied topcoat, while it is still wet. ENERFLEX-SB 100 is 100% UV stable and color stable. Curing time may vary from 12 to 24 hours depending on environmental conditions

#### Weather Conditions:

Rainy weather should be avoided. It is recommended to carry out ENERFLEX-SB100 application between temperatures 40°F to 120°F and relative humidity lower than 70%.

#### Packaging Size:

4.75 Gal



### Coverage:

Coverage rate of 2.2 – 3.2 gallons per square (100 Square feet) is recommended and it can be achieved in single coat. However, consumption may vary depending on surface texture, porosity, and application specification.

### Colors:

White, Grey & Red

### Shelf life:

Minimum 12 months from the date of production in sealed containers, when stored in dry, cool, and covered area.



### PRECAUTIONS

### Storage & Handling:

Protective clothing, gloves, and eyewear should be used during application. Do not heat the pails or place the pails near the heated surface. Keep the pails sealed, when not in use. Material must be stored in a shaded area with temperatures between 50 °F and 85 °F. Storage at temperatures outside these conditions or at relative humidity over 65% will reduce the shelf life. Storage longer than 10 months may require additional mixing. Ensure to tightly seal the pail after opening and when not in use. Opened pails should be used within 3 – 5 days after opening. 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 to occur. Do not transport on passenger seats or inside the passenger compartment of any vehicle.

### Warranty & Limitations of Liability:

We warrant that this product shall be free of any defect in material for a period of ONE YEAR from the date 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.

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