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EnerFlex SB 100

Technical Data Sheet

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.

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 EnerSil Neutral Silicone Sealant 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.

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). IIn 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

TECHNICAL PROPERTIES

Characteristics	Values
Density	1.24 g/cm³
Solids by Weight	78%
Solids by Volume	75%
Viscosity	9,000 – 10,000 cps
Tensile Strength	320 psi
Elongation at Break	350%
Hardness Shore A	55
Permeability	5 perms
Accelerated Weathering	No Degradation after 4,000 hrs
Reflectivity (initial)	86
Emissivity	89
SRI	108
VOC	280 g/l
Temperature Variation Resistance ***-30°C to +80°C***	-30°C to +80°C
Film Formation Time	2.5 hours

****Above values are typical nominal test values***

Weather Conditions:

Rainy weather should be avoided. It is recommended to carry out EnerFlex SB 100 application between temperatures ***40°F to 120°F*** and relative humidity lower than ***70%.***

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.

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.

For more details:

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