USP® 100 FB EV-PLUS SINGLE PLY ADHESIVE

Description: USP® 100 FB EV-Plus Single Ply Adhesive is an unique high solids, single component rubberized asphalt emulsion adhesive designed for bonding USP® FB EV-PLUS Thermoplastic membrane to various compatible horizontal surfaces including structural concrete, lightweight insulating concrete, polyisocyanurate insulation, gypsum based cover boards and approved DuraFlex® base sheets. USP® 100 FB EV-PLUS Single Ply Adhesive is VOC compliant, and is cold applied and does not require the use of special equipment or kettles and is non-flammable.

Use: Intended for bonding USP® FB EV-PLUS Thermoplastic membrane to various compatible horizontal surfaces including structural concrete, lightweight insulating concrete, polyisocyanurate insulation, gypsum based cover boards and approved DuraFlex® base sheets.

Surface Preparation: All surfaces to be adhered must be clean, dry and free from any foreign matter, such as oil, grease, dirt or any debris that could inhibit the bonding capabilities of the adhesive.

Application Method: USP® 100 FB EV-Plus Single Ply Adhesive is applied by brush, notched squeegee or paint roller. Temperatures should be between 50°F and 100°F, however; best results are achieved at temperatures of 75°F. Coverage rate may vary based on the smoothness and porosity of the substrate.

Application: Apply USP® 100 FB EV-Plus Single Ply Adhesive according to the following instructions: Remove lid. Stir well in the container before applying. Do not thin. The substrate must be clean, dry, and free of any foreign materials, grease or oil. It is required that the ambient air temperature is above 50°F for the use of adhesives. Do not apply adhesive if there is a possibility of freezing temperatures within 24 hours of installation. Adhesive should not be applied in temperatures over 100°F. Pour a 2” (5 cm) to 4” (10 cm) wide bead of adhesive along the substrate about 12” (30.5 cm) from the low edge of the work area. Apply using a brush, notched squeegee or heavy roller at a minimum coverage rate of 60 sq. ft per gallon to the substrate over which the membrane shall be installed. Spread the adhesive in a uniform, smooth, even coat without gaps, dry areas or bubbles. Continue to spread the adhesive up the roof until the bed of adhesive is wide enough to receive the sheet. Coverage rate may vary based on the smoothness and porosity of the substrate. Open time will vary depending on temperature, weather conditions and film thickness. Average open time is between 10 to 30 minutes of application. Place the membrane into the adhesive, fleece side down. Use a broom on the membrane in to work out any air bubbles and roll with a heavy weighted roller (minimum 200 lbs). Note: Not for use with smooth backed USP® EV-PLUS or USP® PVC membranes.

Coverage: Coverage rate is approximately 60 sq. ft per gallon depending on the absorbency of the substrate. Note: Increased rates of application will prolong the curing process.

Product Data: USP® 100 FB EV-Plus Single Ply Adhesive (typical)
Item Code: SP-100-SPA
Color: Black/Brown
Adhesive Base: Rubberized asphalt emulsion in a water base.
Viscosity: 18,000 cps @ 77°F
% Solids: 70% +/- 1%.
VOC: 3 g/l max
Weight per gallon: 8.4 lbs/ gal
Flash Point (TCC) >212°F (100°C)

Packaging: Available in 5 gallon pails. Pail weight is approximately 46 lbs.

Storage/Handling: USP® 100 FB EV-Plus Single Ply Adhesive contains ingredients which could be harmful if mishandled. Contact with skin and eyes should be avoided and adequate protective equipment and clothing should be worn. Read MSDS prior to use. Refer to USP® Single Ply Roofing Systems Guide Specifications, Detail Drawings and Technical Bulletins for instructions. Keep out of the reach of children. Observe normal safeguards for storing and handling of this product prior to and during application. Adhesive can be applied within an ambient temperature range of 50°F (10°C) to 100°F (37.8°C). Store material at 70°F (21.1°C) for at least
48 hours prior to application if the ambient temperature is 55ºF (12.7ºC) or below. If adhesive is stored below 40ºF (4.4ºC), it must be stored at room temperature (72ºF) for a minimum of three days before using.

**Cure Time:** Cure time will be between 24 and 48 hours and is dependent on several factors including but not limited to ambient temperature and film thickness. The strength of the adhesive will continue to increase beyond this initial bonding period.

**Compatibility/Limitations:** Compatible with concrete, lightweight concrete, polyisocyanurate insulation, gypsum based cover boards and approved DuraFlex® base sheets.

**Clean Up:** Fresh adhesive can be removed with water. Dried adhesive can be cleaned with mineral spirits or USP® Natural Solvent Cleaner. Keep containers covered when not in use.

**Shelf Life:** For best results use within 6 months when stored between 60ºF (16ºC) and 80ºF (27ºC) in unopened containers and out of direct sunlight. Do not store adhesive below 40ºF (4.4ºC) or above 120ºF (49ºC). Keep from freezing. Once the adhesive has been frozen, it is no longer useable, even when thawed. Storage in temperatures above 80ºF will shorten shelf life.

**Caution:** If swallowed, do not induce vomiting. Keep out of the reach of children. Read MSDS prior to use.

**California Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer; birth defects and/or reproductive harm.

All values given are approximate and are subject to change without notice. There is no implied or express warranty given through these values or statements, nor are there any assertions that the product purchased has been individually tested to conform to these standards. Testing is performed on a random basis by “in-house” and independent “third party” evaluation for the purpose of classification and or approval. Acceptance, purchase and selection of these products are the sole responsibility of the buyer or buyer’s representative. We assume no responsibility for coverage, performance or injuries resulting from use.

Seller warrants that this product shall be free of any defect in material or workmanship under normal use 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, tort (including negligence) or any other legal theory. Liability, if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY U.S. PLY, INC. EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE GOODS HERELN SOLD BEYOND THE TERMS SET FORTH ON THE FACE HEREOF. NO EMPLOYEE OR AGENT OF SELLER IS AUTHORIZED TO ALTER THE TERMS HEREOF.