

USP® 901 PREMIUM MODIFIED ADHESIVE

Product Data Sheet



Description: USP® 901 Premium Modified Adhesive is an easy spreading, quick bonding, high performance, high solids, rubberized cold process adhesive that contains a unique blend of specially formulated components that enhances initial grab and adhesion, elasticity, and waterproofing characteristics of the adhesive.

Use Intended for applying APP or SBS modified bitumen membranes to various roof surfaces, base and/or interply sheets.

Green Standards Information: USP® #901 Premium Modified Adhesive contains approximately 1.5% of recycled materials by product weight. Materials are comprised of post consumer recycled materials. The post consumer recycled materials are derived from recycled cellulose which averts disposal of paper in landfills or commercial dumps.

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. On existing roofs, inspect roof deck condition – moisture in old roof may require complete removal of existing roof.

Storage/Handling: Keep away from heat, open flame and any source of ignition. Observe normal safeguards for storing and handling of this product prior to and during application. Do not allow adhesive to freeze. Do not thin with additional solvents. Temperatures should be above 45°F (7.2° C) and rising as adhesives tend to thicken and stiffen in cold weather and can result in excessive quantity application. For best results, keep material temperatures above 70°F. Store material at 70°F (21.1°C) for at least 24 hours prior to application if the ambient temperature is 50°F (10° C) or below. Do not heat container or attempt to thin this product. Not recommended for application on substrates that exceed 140°F (76° C).

Product Data: USP® 901 Premium Modified Adhesive (typical)

VOC: 300 g/l max

Weight per gallon: 9.5 lbs/ gal. (47.5 lbs/pail)

Flash Point (TCC) +100°F (38.7°C)

Meets or exceeds ASTM D 3019 Type III

Packaging: Available in 5 gallon pails

Application: Remove lid. Mechanically mix before application. **Do not thin.** Apply adhesive by sprayer, brush/roller or notched squeegee at a rate of 1.5 - 2

gallons per 100 ft² (0.6 - 0.8 L/m²) when applied to concrete deck, approved coverboard or thermal insulation, base sheet or other suitable substrate. Do not apply excess amount of adhesive. Note: Increased rates of application will prolong the curing process. **Spray:** A Graco 45.1 pump, 120H AM Roof Pump or equivalent is recommended. Consult equipment manufacturer for optimum Psi, spray tip size, length of hose, number of spray guns, etc., to achieve uniform application. The adhesive sets by the evaporation of the solvent. **Squeegee:** When using a squeegee, it should have ¼" (6 mm) serrations to apply a uniform, smooth, even coat without gaps, dry areas or bubbles. For best results, 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/roller or notched squeegee with notches ¼ inch wide and 1/8 inch deep spaced 1 inch on center to achieve the intended application rate. 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. The adhesive may be left open for a short time before the modified roll is embedded to allow some of the solvent to evaporate and improve the initial bond. This time period will vary significantly with weather conditions and the applicator should be careful not to allow the adhesive to set up or skin over before the membrane is installed. The modified bitumen sheets should preferably be cut into sections less than 20 ft. in length and allowed to relax and flatten out before being installed. The sheet is then rolled, scrolled or flopped into the adhesive. All SBS laps should be a minimum of 4 inches wide on sides and 6 inches on ends. All APP laps should be a minimum of 3 inches wide on sides and 6 inches on ends. When seams are to be welded, avoid adhesive contamination into the seam area. When laps are to be bonded with adhesive they should be rolled with a weighted roller and end laps should be weighted to ensure a proper bond. A bead of adhesive should be evident at all seams. Brooming is recommended to ensure embedment. Re-positioning or straightening of the sheet can be accomplished during this time. (Refer the U.S. Ply application and installation instructions for specific installation procedures and for specific seaming instructions.



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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: Do not use on wet or damp surfaces, directly over wood or on surfaces previously covered with coal tar products. Do not use with modified bitumen membranes that have a plastic release film backing or foil laminate facer. Do not use over solvent sensitive insulation.

Clean Up: Keep containers covered when not in use. May be cleaned with mineral spirits or naphtha. Use care when handling solvents. Follow spray equipment manufacturer's instructions for cleaning with solvents. Clean hands with waterless hand cleaner.

Shelf Life: Two years from date of manufacture

Caution: Combustible mixture, keep away from heat, open flame and any source of ignition. Observe normal safeguards for storing and handling of this product prior to and during application. Avoid prolonged contact with skin or flames. If irritation occurs seek medical attention.

Take all necessary precautions to prevent vapor intrusion into ventilation systems. Cover rooftop air intake vents when applying the adhesive - to minimize the solvent odor. Use with adequate ventilation and close containers when not in use. If TLV is exceeded, respirators are required (NIOSH/MSHA). Inhalation of high vapor concentration may result in headaches and/or dizziness. Remove individual to fresh air and administer oxygen if breathing is difficult. If breathing has stopped, administer artificial respiration, keep victim warm and order emergency medical attention immediately. If swallowed, do not induce vomiting. **Eye Contact** - Rinse immediately with water for 15 minutes and seek medical advice.

Personal Protection - Irritation may result from prolonged or repeated contact with skin. Wear chemical resistant gloves, protective goggles and protective clothing, if needed. Keep out of the reach of children. Read MSDS prior to use. **Fire Protection** – USP® #901 Premium Modified Adhesive is **COMBUSTIBLE** and should always be kept away from heat, open flame and any source of ignition. **Waste Disposal** – Empty containers must be disposed of in an approved landfill in accordance with local, state and federal regulations.

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 HEREIN SOLD BEYOND THE TERMS SET FORTH ON THE FACE HEREOF. NO EMPLOYEE OR AGENT OF SELLER IS AUTHORIZED TO ALTER THE TERMS HEREOF.**