



ALSAN FLEX 5000

Alsan FLEX 5000
(formerly Alsan MBSP)

Order No. L-MBSP40 (silver, 5 gal.)
L-MBSP41 (silver, 50 gal.)
L-MBSP42 (white, 5 gal.)
L-MBSP243 (white, 50 gal.)

DESCRIPTION & APPLICATION

Alsan FLEX 5000 is a flexible, high performance, watertight, puncture and UV resistant ready-to-use single component resin used in restoration of EPDM, granule surfaced SBS modified bitumen, PVC, TPO, Hypalon, smooth surfaced asphalt BUR, smooth surfaced Coal Tar Pitch BUR membranes and waterproofing galvanized metal, concrete, Spray Polyurethane Foam and plywood. Alsan FLEX 5000 is specifically formulated for California's more stringent environmental requirements.

COLOR & PACKAGING:

Alsan FLEX 5000 is supplied in white and silver. Alsan FLEX 5000 is supplied in a resealable five gallon can or in 50 gallon drums.

STORAGE:

Shelf life: 12 months in original unopened containers. Always store closed containers in cool, ventilated and dry location away from heat and oxidizing agents. Do not store in direct sunlight or in temperatures below 32°F (0°C) or above 77°F (25°C). Storing the containers above the recommended temperature may reduce the product's shelf life. The resin may polymerize at temperatures above 140°F (60°C). Avoid direct sunlight and heat source when storing products on project site.

HANDLING:

Always use caution when handling the products. Do not smoke. Keep away from open flame, fire or any ignition source. Avoid skin and eye contact with this product. Cured product may be disposed of in standard landfills. Uncured product is considered a hazardous material and must be handled as such, in accordance with local, state and federal regulations. Workers must wear long sleeved shirts, long pants, work boots and use only butyl rubber or nitrile gloves when working with the product. Safety glasses with side shields are required for eye protection. Use of NOISH approved respirator is required if the airborne concentration exceeds recommended limits. For more information, refer to instruction on the label of the can and to relevant Material Safety Data Sheet (MSDS).

MIXING & APPLICATION:

Product should be heated to 100°F (38°C) prior to application. Thoroughly mix the entire 5-gallon can of resin for 2-3 minutes (20 minutes for the 50-gallon drum quantity) before each use. After mixing, apply resin to clean and prepared substrate at the required consumption using Soprema rollers, brushes, notched squeegee or spray rig. The liquid should be spread evenly onto the surface. See individual system specifications for specific guidelines regarding application of primer, membrane, topcoat and/or slip-resistant protective surfacing.

TECHNICAL INFORMATION

COVERAGE RATES		
Membrane recovery application (two coats)	1.5 gal/sq	21-23 mils cured thickness
Metal application (two coats)	1.5 gal/sq	21-23 mils cured thickness

See recommendations for specific applications. Yields will vary depending upon substrate condition.

SET TIMES AT AMBIENT TEMPERATURE OF 68°F	
Rain proof after:	60 minutes
Set time / walked on / next layer:	4 hours
Fully cured:	4 hours

Pot life is dependent on ambient temperatures and will be reduced at higher temperatures. Minimum set times are approximate and may vary. Actual set times and cure times should be established in the field, based on actual field conditions.



PHYSICAL PROPERTIES			
	ASTM test method	Results/units	ASTM D 6083 Requirement
Physical state	-	Viscous liquid	-
Color	-	Silver and White	-
Drying time	D 2196-05	1 - 4 hours	-
Viscosity @ 73.4°F, KU	D 562	115	85 - 141
Volume solids, %	D 2697	35.0	> 50
Weight solids, %	D 1644	37.1	> 60
FILM PROPERTIES			
Low temperature flex	D 903	Pass @ -25°C	Pass
Initial tensile strength @ 73°F, psi	D 2370	1502	200 min
Initial Elongation @ 73°F, %	D 2370	1069	100 min
Permeance, perms	D 1653	2.7	50 max
Water swelling, mass %	D 471	0	20 max
Wet adhesion to galvanized metal, pli	C 794 / D 903	6.1	2.0 min
Wet adhesion to Concrete, pli	C 794 / D 903	7.5	2.0 min
Wet adhesion to Spray Polyurethane Foam Roofing, pli	C 794 / D 903	3.4	2.0 min
Wet adhesion to EPDM, pli	C 794 / D 903	3.4	2.0 min
Wet adhesion to SBS Granule, pli	C 794 / D 903	5.4	2.0 min
Wet adhesion to, PVC, pli	C 794 / D 903	6.8	2.0 min
Wet adhesion to TPO, pli	C 794 / D 903	10.5	2.0 min
Wet adhesion to Hypalon, pli	C 794 / D 903	7.0	2.0 min
Wet adhesion to, smooth surfaced asphalt BUR, pli	C 794 / D 903	2.8	2.0 min
Wet adhesion to, Plywood, pli	C 794 / D 903	2.2	2.0 min
Wet adhesion to, smooth surfaced Coal Tar Pitch BUR, pli	C 794 / D 903	2.5	2.0 min
Tear Resistance (Die C), lbf/in	D 624	208	> 60
Fungi Resistance, rating	G 21	0	0 max



PHYSICAL PROPERTIES (CONTINUED)			
	ASTM test method	Results/units	ASTM D 6083 Requirement
FILM PROPERTIES AFTER 1000 HOURS ACCELERATED WEATHERING			
Elongation @ 73°F, %	D 2370	1029	100 min
Low Temperature Flex, 1/2" mandrel, -15°F	D 522	Pass	Pass
Appearance after 1000 hrs accelerated weathering	D 4798	Pass	No cracking or checking
FEDERAL SPECIFICATION TT-C-555B, SECTION 4.4.7: WIND DRIVEN RAIN RESISTANCE			
Property			TT-C555.B Section 4.4.7 requirement
Replicate	1	2	3
Weight before, g	6335.3	6298.4	6311.2
Weight after, g	6335.3	6298.4	6311.2
Weight gain, g	0	0	0
Wind Driven Rain (Pass or Fail)	Pass		Pass

This product complies with all of the performance requirements and some of the compositional requirements of the Florida Building Code 2007 (HVHZ) Testing application Standard TAS 110-5000, Section 7: Coatings using ASTM D 6083-97a: *Standard Specification for Liquid Applied Acrylic Coating Used in Roofing*, Section 1523.6.2.1.1 for spray applied polyurethane foam coating and 1523.6.3 for liquid applied roofing membrane systems including the requirements of Federal Specification TT-C-555B, Section 3.3.3: Resistance to Wind-Driven Rain.

Limitations of use: the coating may be applied to EPDM, granule surfaced SBS modified bitumen, PVC, TPO, Hypalon, smooth surfaced asphalt BUR, smooth surfaced Coal Tar Pitch BUR membranes, galvanized metal, concrete, Spray Polyurethane Foam, roofing and plywood.