

FLEXSTONE COLOURCOAT (AL-ESTER) HIGH SOLIDS ALIPHATIC TOP COAT

PRODUCT DESCRIPTION

COLOURCOAT AL-ESTER is a single component, liquid applied, moisture cured, aliphatic polyester-polyurethane surface protection coating.

BASIC USES

COLOURCOAT AL-ESTER is a wear surface and waterproofing topcoat used in the FLEXSTONE Systems. When COLOURCOAT AL-ESTER is incorporated into these systems, it helps to protect concrete and plywood decks, parking structures, mechanical equipment pads and areas that require a seamless membrane system for protection against water damage. It can also be used on substrates in industrial locations, heavy vehicular and pedestrian traffic areas, and on many other properly prepared substrates. COLOURCOAT AL-ESTER can also be used as a topcoat for polyurethane athletic track surfaces that need protection from oils, greases, mild chemical spillage and ultraviolet light. Do not use in areas of water immersion such as water parks and ponds.

COLOURS

Several STANDARD COLOURS are available. Custom colours and non-stocking colors are available with minimum ordering quantities. See www.flexstones.ca for information on colour options & finishes. AL Top Coat is available in 5-gallon containers.

GENERAL INFORMATION

BASIC USES: COLOURCOAT AL-ESTER is the abrasion-resistance and weather resistant Top Coat used in most of the FLEXSTONE Vehicular Traffic Bearing and Pedestrian Deck Coating Systems. Please refer to the pertinent Installation Specification Data Sheet on each of these systems.

COLOURCOAT AL-ESTER is used where optimum weather resistance, abrasion resistance and color stability are required. It is used in conjunction with FLEXSTONE "TUFF", FLEXSTONE "SOFT" and FLEXSTONE STANDARD OUTDOORS ELASTOMERIC Membranes. The cured top coat easily withstands the extreme environmental conditions encountered in exterior construction environments. When used in conjunction with elastomeric base membranes, the COLOURCOAT AL-ESTER composite system contracts with lower temperatures and readily expands when temperatures increase. COLOURCOAT AL-ESTER may also be used alone as an abrasion-resisting industrial maintenance coating.

LIMITATIONS:

Containers that have been opened must be re-sealed in an airtight container (may still form a thin skin). Since the product is a moisture reactive material, it will gel or set up when exposed to air. Keep lid tightly sealed when material is not in use. Surfaces to be coated must be clean, dry and free of contaminants.

SHELF LIFE:

Twelve (12) months after manufacture when continuously stored indoors in unopened metal pails at temperatures below 80°F. Stir thoroughly prior to use.

MIXING INSTRUCTIONS:

Mix COLOURCOAT AL-ESTER thoroughly before using or before adding the optional top-coat accelerator. Material should be mixed thoroughly with a mechanical mixer (Jiffy Mixer) at low RPM. Care must be taken not to whip air into the mixture as this may cause pin-holes.

INSTALLATION

SURFACE PREPARATION: All surfaces to be coated with COLOURCOAT AL-ESTER must be thoroughly dry and free of all contaminants, including oxidation on old top coats or base coats as well as construction debris or deposits.

APPLICATION:

COLOURCOAT AL-ESTER is normally applied at a rate of 80-100 square feet per gallon, per coat, resulting in a film thickness of 16 to 20 wet mils. Coverage will vary depending on the aggregate size, texture or degree of surface porosity. The larger the aggregate used, the lower will be the coverage rate due to the greater surface area being covered. COLOURCOAT AL-ESTER is easily applied by roller or squeegee. ALWAYS FOLLOW BY BACKROLLING. At 50% relative humidity and 77°F, the coating will be dry to the touch within 16 hours. Traffic should not be allowed on the finished coating until firm (usually 24-36 hours). FLEXSTONE Accelerators may be added to COLOURCOAT AL-ESTER to allow for light traffic on decks within a matter of hours. Please refer to the Technical Bulletins on Accelerators or contact FLEXSTONE for details.

MAINTENANCE

If a COLOURCOAT AL-ESTER coated surface is damaged, it can be repaired by light sanding or by scrubbing with industrial soap and water, followed by a thorough rinse with water. Follow this with a solvent wipe with acetone or xylene. When the surface is dry, apply additional COLOURCOAT AL-ESTER.

AVAILABILITY

COLOURCOAT AL-ESTER is supplied through Building Material Distributors. Prices vary with quantity and packaging. For the name of your nearest distributor, please contact the factory.

These products are designed and manufactured to be installed by professional installers familiar with surface preparation and application procedures. All others should consult a professional installer. Those who choose to install these products without professional assistance do so at their own risk.

PRECAUTIONS

Before using this product read the container precautionary label and the MSDS sheets carefully. Exposure to urethanes or petroleum solvents may cause allergic skin or respiratory reactions. Do not get into eyes, onto skin, or clothing. THIS PRODUCT IS FOR PROFESSIONAL USE ONLY.

TECHNICAL SERVICE

Technical Assistance is available by contacting: **FLEXSTONE COATINGS**

LIMITED WARRANTY

FLEXSTONE Coatings warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any FLEXSTONE materials prove to contain manufacturing defects that substantially affect their performance, FLEXSTONE will, at its option, replace the materials or refund its purchase price.

This limited warranty is the only warranty extended by FLEXSTONE with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. FLEXSTONE specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever.

The dollar value of FLEXSTONE's liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the FLEXSTONE material in question.

PROPERTY	COLORCOAT AL-ESTER (250 VOC)	TEST METHOD
Polymer Composition	Aliphatic Polyester Polyurethane	-----
Solids Content (By Weight)	78 +/- 2%	ASTM D-1353
VOC Content	250 grams/liter	Calculated
Weight Per Gallon	9.7 ± 0.2 lbs.	ASTM D-1475
Viscosity @ 77°F	25-35 poise	Brookfield
Cure Time @77°F, 50% R.H. @ 10 mils	24 hours	
Flash Point	Above 116°F	ASTM D-93
Tensile Strength	3300 ± 300 psi	ASTM D-412
Ultimate Elongation	200 ± 50%	ASTM D-412
Hardness, Shore A	90 ± 5	ASTM D-2240
Adhesion to Base Coat	30 pli	-----
Water Vapor Permeability	0.1 perms	ASTM E-96
Abrasion Resistance, Inch Loss	Less than .002	C-502 Tabor Abrasion, 1000 Rev, 1000 Gm. Weight, CS-17 Wheel
Water Absorption	Less than 1 %	ASTM D-543
Tear Strength	350 ± 50 lb./in.	ASTM D-1004
Chemical Resistance (Commonly encountered acids, salts, and oils)	Excellent	ASTM D-2299
Weathering Resistance	No Chalking @ 2000 hours	ASTM G-23
Service Temperature Range	-30 to + 180°F	-----
Thermal Shock	No loss of adhesion	Alternate Heat/Cold Cycle