



TECHNICAL BULLETIN

COLORCOAT AL (HIGH SOLIDS) ESTER For Use in or outside CALIFORNIA

PRODUCT DESCRIPTION

COMPOSITION: COLORCOAT AL (HIGH SOLIDS) ESTER is a single component, liquid applied, moisture-cured, polyester-polyurethane surface protection coating.

BASIC USES: COLORCOAT AL (HS) ESTER is a wear surface and waterproofing topcoat used in the TUFFLEX Systems. When COLORCOAT AL (HS) ESTER is incorporated into these systems, it helps to waterproof concrete and plywood decks, parking structures, mechanical equipment pads and areas that require a seamless membrane for protection against water damage. It can also be used on substrates in industrial locations, heavy vehicular and pedestrian traffic areas, and other properly prepared substrates such as metal, wood, and masonry. COLORCOAT AL (HS) ESTER can also be used as a topcoat for polyurethane athletic track surfaces that need protection from oils, greases, some types of chemical spillages, and ultraviolet light. Do not use in areas of long standing water such as water parks and ponds.

COLORS: COLORCOAT AL (HS) ESTER is stocked in the TUFFLEX Standard Colors and custom colors are available. Special orders require a minimum order of 150 gallons.

PACKING: Available in 5 gallon and 55 gallon containers.

PRE-APPLICATION PRECAUTION

LIMITATIONS: Containers that have been opened must be used within 1 or 2 days since COLORCOAT AL (HS) ESTER is a moisture reactive material which sets up when exposed to air. COLORCOAT AL (HS) ESTER should not be diluted. It is recommended to apply the COLORCOAT AL (HS) ESTER on a textured surface in order to provide the needed slip-resistance. Non-textured surfaces may be slippery under wet conditions.

PRECAUTION: COLORCOAT AL (HS) ESTER is a component of the TUFFLEX Systems. It should primarily be used as stipulated in the TUFFLEX SPECIFICATIONS. Results occurring from use other than what is stipulated in the TUFFLEX SPECIFICATIONS are not tested or recommended. Ensure that the surface is properly prepared prior to application.

APPLICATION:

GENERAL: COLORCOAT AL (HS) ESTER requires a few precautions to be followed during and after application. Each application should be done in one complete step. A continuous application will ensure a smooth and level coat with no lines or streaks to disfigure the deck. Application should not be stopped part way across an area and then completed several or more hours later.

MIXING INSTRUCTIONS: Before application, briefly mix COLORCOAT AL (HS) ESTER using a mechanical mixer (Jiffy Mixer) at slow speeds or mix for at least 5 minutes, if mixed by hand. Care should be taken not to whip air into the product as this may cause pin holes. Mix COLORCOAT AL (HS) ESTER thoroughly until a homogeneous mixture and color is obtained.

APPLICATION: The first coat of COLORCOAT AL (HS) ESTER should be applied at the rate of 90 to 100 square feet per gallon, depending upon surface texture. For best results use a squeegee, trowel or phenolic core roller. Spread COLORCOAT AL (HS) ESTER evenly over the entire deck, resulting in 12 +/- 2 dry mils. After 24 hours, proceed to the second coat. (Refer to the TUFFLEX ADVISORY and Technical Bulletin on the optional COLORCOAT ACCELERATOR in order to speed this time frame up.) Many Specifications require 2 coats. A third coat may be necessary depending on the job Specifications and requirements. When estimating

material requirements, coverage rates tend to increase per gallon for subsequent coats of material. Allow each coat to cure a minimum of 24 hours if the optional Accelerator is not used. To obtain proper adhesion between coats it is imperative that recoating be done within 48 hours.

CURING: Allow COLORCOAT AL (HS) ESTER to cure at least 24 hours before permitting light pedestrian traffic and at least 72 hours before permitting heavy traffic on the completed system. Note: Curing time depends on humidity and temperature. Low temperature and low humidity extend the curing time. Use the optional COLORCOAT ACCELERATOR to shorten cure times, refer to the TUFFLEX COLORCOAT ACCELERATOR ADVISORY and Technical Bulletin.

EQUIPMENT CLEANUP: Equipment should be cleaned immediately with an environmentally-safe solvent, as permitted under local regulations, immediately after use.

TECHNICAL DATA

Physical Property	Test Method	Results [Metric]	Results [English]
Coverage Rate		0.41 l/m ²	1 gal/100ft ²
Dry Film Thickness per Coat		300 ± 50 microns	12 ± 2 mills
Hardness	ASTM D-2240	95 ± 5 Shore A	95 ± 5 Shore A
Shelf Life		6 months	6 months
Specific Gravity		1.5	1.5
Tear Resistance Die C	ASTM D-624	44 kN/m	250 +/- 50 pli
Tensile Strength	ASTM D-412	25 +/- 2 MP	3500 +/- 300 lbs/inch ²
Total Solids by Weight	ASTM D-2369	78.8 +/- 2%	78.8 +/- 2%
Total Solids by Volume	ASTM D-2697	72.4 +/- 2%	72.4 +/- 2%
Ultimate Elongation	ASTM D-412	250 +/- 50%	250 +/- 50%
Viscosity at 24°C (75°F)		2500 ± 500 cps	2500 ± 500 cps
Volatile Organic Compounds	ASTM D- 2369-81	250 gm/liter	2.08 lbs./gallon

PRECAUTIONS: This product contains flammable solvents. Keep these materials away from heat, sparks and flames. Personnel applying these coatings should wear protective clothing, use respiratory protection, safety goggles and gloves. Avoid contact of material with skin or eyes and avoid breathing the solvent vapors. Mix and apply in well-ventilated areas and observe normal safety precautions required for solvent containing materials. Read the MSDS sheets before using this product. This product is for professional use only.

LIMITED WARRANTY: Tufflex Polymers, LLC (TUFFLEX) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any TUFFLEX materials prove to contain manufacturing defects that substantially effect their performance, TUFFLEX will, at its option, replace the materials or refund its purchase price.

This limited warranty is the only warranty extended by TUFFLEX with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. TUFFLEX 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 TUFFLEX'S liability and buyer's remedy under his limited warranty shall not exceed the purchase price of the TUFFLEX material in question.

COLORCOAT AL (HS) ESTER (07)