



TECHNICAL DATA

COLORCOAT AR TOP COAT

1. PRODUCT DESCRIPTION

COLORCOAT AR is a single component, liquid applied, moisture-cured, aromatic polyurethane surface protection coating.

2. BASIC USES

COLORCOAT AR is the low cost wear surface topcoat used in some of the TUFFLEX Decking Systems. COLORCOAT AR is also used as the economical "aggregate receiving coat" in the decorative colored-quartz decking systems. When COLORCOAT AR is incorporated into these systems, it helps protect 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 in industrial locations where surfaces must withstand vehicular and foot traffic. COLORCOAT AR can also be used on properly prepared metal, rubber, wood, and masonry surfaces that require weather protection. It helps protect the surface from many types of mild chemical spills and will eliminate concrete dusting problems.

3. COLORS AND PACKAGING

COLORCOAT AR is stocked in the TUFFLEX Standard Colors of Sidewalk Gray and Monterey Sand. Custom Colors are available. Custom Colors and Non Stocking Colors require a minimum order of 180 gallons.

Available in 5 gallon and 55 gallon containers.

4. GENERAL INFORMATION

PRE-APPLICATION PRECAUTIONS: COLORCOAT AR is an aromatic topcoat and the surface appearance may become flat, may form a light chalky condition and will have some color change upon prolonged UV exposure. Containers that have been opened must be used within 1 or 2 days, since COLORCOAT AR is a moisture reactive material which sets up when exposed to air. COLORCOAT AR should not be diluted. It is recommended to apply the COLORCOAT AR on a textured surface in order to provide the needed slip-resistance. Improperly textured surfaces may be slippery under wet conditions.

PRECAUTIONS: COLORCOAT AR is a component of the TUFFLEX Decking Systems. It should primarily be used as stipulated in the installation and specification data sheets. Results which arise from use other than what is stipulated are not tested or recommended.

COLORCOAT AR 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: Mix COLORCOAT AR thoroughly before using or before adding the optional TUFFLEX CURE ACCELERATORS. 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.

APPLICATION: The first coat of COLORCOAT AR should be applied at the rate of 80 to 100 square feet per gallon, depending upon the surface texture. For best results use a squeegee, trowel or phenolic core roller. Spread COLORCOAT AR evenly over the entire deck resulting in 16-20 wet mils. Allow to cure over night before applying second coat. Most applications

will require two top coats (one aromatic and one aliphatic). To obtain proper adhesion between coats it is imperative that re-coating be done within 48 hours. Allow COLORCOAT AR to cure at least 24 hours before permitting light pedestrian traffic. Note: Curing time depends on humidity and temperature. Low temperature and low humidity extends the curing time. Use the TUFFLEX CURE ACCELERATORS to shorten cure time. Refer to the TUFFLEX ACCELERATOR Technical Bulletins for further information.

5. MAINTENANCE

If a COLORCOAT AR 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 and TUFFLEX 7113 penetrating cleaner. When the surface is dry, apply additional COLORCOAT AR.

6. AVAILABILITY

COLORCOAT AR 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.

7. PRECAUTIONS

Before using this product read the container precautionary label and the Safety Data Sheet (SDS) 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.**

8. TECHNICAL SERVICE

Technical Assistance is available by contacting:

TUFFLEX POLYMERS
10880 Poplar Avenue
Fontana, California 92337
Phone: (909) 349-2016
Fax: (909) 823-6309

9. LIMITED WARRANTY

TUFFLEX Polymers (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 affect 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 this limited warranty shall not exceed the purchase price of the TUFFLEX material in question.

10. TECHNICAL DATA

COLORCOAT AR

<i>PROPERTY</i>	<i>COLORCOAT AR-SC (100 VOC)</i>	<i>COLORCOAT AR-HS (250 VOC)</i>	<i>TEST METHOD</i>
Polymer Composition	Aromatic Polyurethane	Aromatic Polyurethane	-----
Solids Content (By Weight)	82 +/- 2%	78 +/- 2%	ASTM D-1353
VOC Content	100 grams/liter	250 grams/liter	Calculated
Weight Per Gallon	10.4 ± 0.2 lbs.	9.7 ± 0.2 lbs.	ASTM D-1475
Viscosity @ 77°F	25-35 poise	25-35 poise	Brookfield
Cure Time @77°F, 50% R.H. @ 10 mils	16 hours	16 hours	
Flash Point	Above 116°F	Above 116°F	ASTM D-93
Tensile Strength	3300 ± 300 psi	3300 ± 300 psi	ASTM D-412
Ultimate Elongation	225 ± 50%	225 ± 50%	ASTM D-412
Hardness, Shore A	90 ± 5	90 ± 5	ASTM D-2240
Adhesion to Base Coat	30 pli	30 pli	-----
Water Vapor Permeability	0.3 perms	0.3 perms	ASTM E-96
Tear Strength	300 ± 50 lb./in.	300 ± 50 lb./in.	ASTM D-1004
Chemical Resistance (Commonly encountered acids, salts, and oils)	Good	Good	ASTM D-2299
Weathering Resistance	No Chalking @ 500 hrs	No Chalking @ 500 hrs	ASTM G-23
Service Temperature Range	-30 to + 180°F	-30 to + 180°F	-----
Thermal Shock	No loss of adhesion	No loss of adhesion	Alternate Heat/Cold Cycle

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