



# TECHNICAL BULLETIN

## COLORCOAT AR

### PRODUCT DESCRIPTION

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

**BASIC USES:** COLORCOAT AR is the low cost wear surface topcoat used in the TUFFLEX Decking Systems. COLORCOAT AR is the "aggregate receiving coat" in the decorative colored-quartz decking system. When COLORCOAT AR 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 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 some types of mild chemical spills and will eliminate concrete dusting problems.

**COLORS:** COLORCOAT AR is stocked in the TUFFLEX Standard Colors and custom colors are available. Special orders require a minimum order of 200 gallons.

**PACKING:** Available in 5 gallon and 55 gallon containers.

### PRE-APPLICATION PRECAUTION

**LIMITATIONS:** COLORCOAT AR is an aromatic topcoat and the surface may become flat, slightly chalky, and will have some color change over time. 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. Non textured surfaces may be slippery under wet conditions

**PRECAUTION:** COLORCOAT AR is a component of the TUFFLEX Decking Systems. It should primarily be used as stipulated in these TUFFLEX SPECIFICATIONS. Results occur-ring from use other than what is stipulated in the TUFFLEX SPECIFICATIONS are not tested or recommended.

### APPLICATION:

**GENERAL:** 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 adding the optional COLORCOAT 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.

**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 12 +/- 2 dry mils. Allow to cure over night before applying the second coat. Most applications require two 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 over night between coats. To obtain proper adhesion between coats it is imperative that re-coating be done within 48 hours.

**CURING:** Allow COLORCOAT AR to cure at least 24 hours before permitting light pedestrian traffic and at least 72 hours before permitting heavy traffic or placing heavy objects on the completed system. Note: Curing time depends on humidity and temperature. Low temperature and low humidity extends the curing time. Use the optional COLORCOAT ACCELERATOR to shorten cure time. Refer to the TUFFLEX COLORCOAT ACCELERATOR ADVISORY and Technical Bulletin for further information.

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

### TECHNICAL DATA

Physical Property	Test Method	Results [Metric]	Results [English]
Coverage Rate		0.31-0.51 l/m <sup>2</sup>	¾-1¼ gal/100ft <sup>2</sup>
Dry Film Thickness per Coat		290 ± 51 microns	10-14 ± 2 mills
Hardness	ASTM D-2240	90 ± 5 Shore A	90 ± 5 Shore A
Shelf Life		6 months	6 months
Specific Gravity		1.2	1.2
Tear Resistance Die C	ASTM D-624	48 kN/m	275 pli
Tensile Strength	ASTM D-412	20.3 MPa	2950 psi
Total Solids by Weight	ASTM D-2369	80 +/- 2%	80 +/- 2%
Total Solids by Volume	ASTM D-2697	72 +/- 2%	72 +/- 2%
Ultimate Elongation	ASTM D-412	520%	520%
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.

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