



► ColorKote™ TC

Colorkote™ TC is a flexible, reinforced, vinyl substrate, coated with premium ink and covered with FX outer protective coating. This flexible substrate is created for the sign and awning industries for backlit graphic applications. The premium ink and FX protective coating are designed to be removed with Arlon's Eradicator for various graphic capabilities. Colorkote™ TC provides protection, durability, superior appearance and longer life in outside environments.

APPLICATIONS & FEATURES

- Pre-decorated for eradicated graphics and/or solid background coverage.
- After eradication, warranties of uncovered areas may be extended with EradaShield.
- FX protective coating blocks plasticizer migration.
- Increased UV and heat resistance (to maintain white color).
- Easy cleaning.
- Wide range of colors.

COMPOSITION Flexface®

Colorkote™ TC is manufactured using a premium cast PVC. A low shrink, high strength polyester scrim is embedded into the cast, white PVC film. The 500 denier yarn is treated with an anti-wicking formulation, and the PVC includes additives for weathering and microbial protection. Premium ink is applied to the top surface of the PVC for good anchorage followed by the specially formulated FX protective coating.

TECHNICAL SPECIFICATIONS





PROPERTY	UNITS	TEST RESULTS (AVERAGED)	TEST METHODS (AMERICAN STANDARD TEST METHOD)
THICKNESS	mil	24	Section 8, Vol. 08.01, D1593-89
	mm	.635	
WEIGHT	oz/sq yd	21	Section 8, Vol. 08.01, D1593-89
	g/sq m	705	
THREAD COUNT			
WARP (ALONG)	/sq in	20	
WEFT (ACROSS)	/sq in	20	
WARP (ALONG)	/sq cm	8	
WEFT (ACROSS)	/sq cm	8	








TECHNICAL SPECIFICATIONS (cont'd)

PROPERTY	UNITS	TEST RESULTS (AVERAGED)	TEST METHODS (AMERICAN STANDARD TEST METHOD)
TENSILE STRENGTH AT BREAK			
WARP (ALONG)	lbf/linear in	178 (792 Newton Force)	Section 8, Vol. 08.01, D1593-89
WEFT (ACROSS)	lbf/linear in	159 (707 Newton Force)	
ELONGATION AT RUPTURE			
WARP (ALONG)	%	38	Section 8, Vol. 08.01, D1593-89
WEFT (ACROSS)	%	39	
TEAR RESISTANCE			
WARP (ALONG)	lbf	22 (98 Newton Force)	Section 8, Vol. 08.01, D1593-89
WEFT (ACROSS)	lbf	16 (71 Newton Force)	
OPTICAL DENSITY	%	Each color varies	
GLOSS	%	35	Section 8, Vol. 08.03, D2457-90
SEAM STRENGTH	lbf/liner	106 (471 Newton Force)	Section 8, Vol. 08.01, D882
WATER ABSORBTION	%	.6	Section 8, Vol. 08.01, D1593-89
HEAT STABILITY		No color change after 15 mins. in oven at 351°F (177°C)	Section 8, Vol. 08.02, D2115-67 (Re-approved 1988)
LOW TEMPERATURE		No crack at -14°F (-25°C)	Section 8, Vol. 08.01, D1593-89
UV RESISTANCE		No appreciable stiffening or cracking after 1000 hrs. under QUV test	Section 8, Vol. 08.03, D4329-92 (Test G53-91)
MILDEW RESISTANCE		Zero growth after 14 days.	Military equipment test (Mil-std.- 810C508), Test G21-80 and Vetron method B-20
ANTI-WICKING		1/4 in (6 mm) maximum wick	Permanent marker at edge of the Colorkote (Brand name of marker; Mark “A” Lot made by Dennison Stationery Products Co.)
SHRINKAGE		1/32 in (.8 mm) maximum shrinkage at 100° C for 30 mins.	Section 8, Vol. 08.01, D1593-89
CHEMICAL RESISTANCE		No visible sign at deterioration or weight loss.	Section 8, Vol. 08.01, D1239-55 (Re-approved 1982)
FLAME RESISTANCE		Flexface® (base substrate) meets all the requirements of the flame test.	·UL 48; Standard for Safety for Electric Signs, in accordance with the National Electrical Code, NFPA 701 ·UL 94; Tests for flammability of polymeric materials ·Japan Fire Regulation article 8-3, CL.. 8-3-1
UL APPROVAL		Flexface® (base substrate) meets Underwriters Laboratories Inc. requirements for a sign/awning material.	UL# E80939 (Sign Accessories)

*Standard Terms & Conditions Apply

April 2014

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OTHER PROPERTIES & INSTRUCTIONAL INFORMATION

SUBSTRATE TEMPERATURE

The best temperature for tensioning Colorkote™ TC is between 50° to 100°F (10° to 35°C). Once tensioned, it will maintain its form without sagging between the temperatures -41° to 176°F (-42° to 80°C).

SMOOTH SURFACE

Colorkote™ TC surface is produced flat and smooth, which allows for minimized dirt settlement and proper graphic application.

ERADICATION & DECORATION PROCEDURES

Colorkote™ TC can be decorated by the following methods:

- Eradication with Arlon's Eradicator or acetone
(**Special Note:** Use of other thinners will damage aqueous coating and void warranty! See Arlon's Eradication Procedure.)
- Pressure-Sensitive Vinyl
- Heat Transfer
- Airbrushed onto eradicated areas (no specified warranty)
- Spray Painted onto eradicated areas (no specified warranty)

HANDLING, PACKAGING & SHIPPING

When packaging, roll up on a minimum 3 in (76 mm) diameter inner core with graphics facing out. When shipping, use an appropriate, sure fitting, shipping core.

STORAGE

Colorkote™ TC should be stored in a cool, dry environment. Preferred temperature is 60° to 75°F (16° to 24°C) with maximum humidity level of 50%.

SHELF LIFE 2 years

SIZES

Colorkote™ TC is available in 7 ft x 150 ft (2134 mm x 45.72 m) width with no seams. Custom seamed rolls are also available at any height.

SEAMING

Colorkote™ TC is seamed with a 1/16 in (16 mm) overlap with seaming tape welded to the back surface of the material by the aid of a RF seaming machine.

(**Special Note:** Arlon produces both eradicated and butt seams on a custom basis. An eradicated seam eliminates ink lines when white graphics are required over seamed areas). A butt seam can produce a slight white line between the seamed sections. This white line is acceptable after touch-up and at the normal viewing distance).

PRE-CLEANING

If surface has to be cleaned, use a lint-free cloth moistened with a mixture of 1 part isopropyl alcohol to 1 part water. After cleaning use a dry lint-free cloth to remove any wet areas.

CLEANING

See Arlon's Cleaning Maintenance & Worldwide Warranty.

REPAIRS

Rips and cuts can be repaired with Arlon's Flexface Repair Kit or vinyl repair kit. The patch placed on the back of the Colorkote™ TC is practically invisible at a typical viewing distance.





WARRANTIES








Ten (10) years. Warranty may be extended in eradicated areas by applying EradaShield. For full warranty details, refer to Arlon's Worldwide Warranty Chart. The warranty will state the limitations and remedies.

SALES & TECHNICAL SUPPORT

For further information and literature relating to Colorkote™ TC, contact an Arlon Representative.

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