Prolongs the life of your graphics!

TUFF COVER Is an Eight mil. velvet

textured clear laminate that protects your underlying graphics from a host of harsh elements. It is easy to handle and laminate (even by hand) to most smooth printed surfaces. The easy-to-read matte surface prevents glare.

Our latest development is new TUFF COVER UV MAX™. Its UV blocking power can extend the life of your graphics up to twice as long. TUFF COVER non-UV and UV MAX are both available in rolls up to 54" wide at \$.98 to \$1.16 per square ft.

This Chart is composed of readings taken by a

change until year two. The Chart shows "Delta E"

The resin ribbons are rated for 3 to 5 years without

spectraphotometer starting at one year, with little to no

readings. A "Delta E" reading of 3 or more is significant enough for most people to notice a difference in color.

The degree of fade on thermal transfer resin ribbons is

same results when laminated on media printed by other

greatly reduced by laminating with Tuff Cover. It can therefore be assumed that Tuff Cover may provide the

PROTECT AGAINST:

- UV Damage (Tested in Arizona) Indoor and Outdoor Signs
- Oils and Petroleum products
- Abrasion and Scratches
- Cleaning Agents

The Proof:

laminating.

methods.

Chemicals

LAMINATE:

- Equipment Safety markings
- Name and Data plates
- Control Panels
- Membrane Switch Overlays



TUFF Cover is used to protect Wyoming's outdoor Park and Trail Signs.

TUFF COVER UV MAX™

is proven to protect graphics from weathering and UV exposure for at least 5 years.

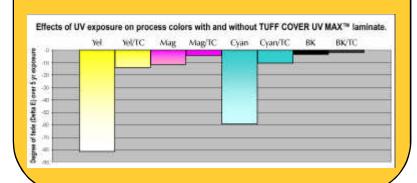
This is a Photo of an actual test panel after a 5 year UV exposure test in Arizona.

The left column is unlaminated and is worn due to the elements and UV exposure.

The right column is laminated with **TUFF COVER and** shows no signs of fading.









For more information call or visit our website: 800-234-9288 www.hyatts.com

GOVERNING STANDARDS for Color Evaluation Test Exposure (Bottom of page)

ASTM G 147 - 02

Standard Practice for Conditioning and Handling of Nonmetallic

Materials for Natural and Artificial Weathering Tests

ASTM G 90 - 98

Standard Practice for Performing Accelerated Outdoor Weathering of Nonmetallic Materials Using Concentrated Natural Sunlight

EXPOSURE MEASUREMENT DATA

Exposure testing is performed in New River, AZ, in accordance with ASTM G90-98, SPRAY CYCLE 1 (EMMAQUA, day spray with night time wetting). The specimens are facing the sun.

EXPOSURE DATA

Location: New River, Arizona Type of Test: EMMAQUA

Radiant Energy: Total: 29,482 MJ/m²;

704,643 Langleys

UV: 900 MJ/m² (295-385 nm)

CHEMICAL RESISTANCE TEST NES Mo133 Method 3							
24 hrs	. @ RT 73°	24 hrs.	@ RT 176°				
Gasoline	PASS		PASS				
Diesel Fuel	PASS		PASS				
Kerosene	PASS		PASS				
Wax	Some Swelling		Watermarks				
Windshield							
Wash Fluid	PASS		PASS				
Detergent	PASS		PASS				
Engine Oil	PASS		Watermarks				
			Some Swelling				
			Could be due				
			to the heat.				
Sulfuric Acid	PASS		Burn Marks				

COLOR EVALUATION RESULTS <u>5 YR.</u>		Evaluation Interval: 900 MJ UV of 900 MJ UV			,
Reac	ling Type =	L*	A*	B*	Delta E*
CONVEX™ Supreme w/YELLOW	Initial	89.24	-4.81	89.92	
CurrentWash	mittai	95.48	-1.67	1.09	
Delta E Reading		6.24	3.14	- <u>88.83</u>	89.10
CONVEX™ Supreme w/MAGENTA	Initial	52.27	57.03	-7.55	07.10
CurrentWash		59.86	50.16	-6.74	
Delta E Reading		7.59	-6.87	0.81	10.27
CONVEX™ Supreme w/CYAN	Initial	61.03	-32.70	-41.32	
CurrentWash		84.15	-11.70	-8.26	
Delta E Reading		23.12	21.00	33.06	45.4 <u>8</u>
CONVEX™ Supreme w/BLACK	Initial	24.76	0.82	0.94	
CurrentWash		28.13	0.50	1.05	
Delta E Reading		3.37	-0.32	0.11	3.39
TUFF COVER™ LAM. YELLOW	Initial	87.08	-4.73	83.09	
CurrentWash		88.57	-10.13	70.38	
Delta E Reading		1.49	-5.40	-12.71	13.89
TUFF COVER™ LAM. MAGENTA	Initial	52.55	53.52	-7.60	
Current-Wash		55.64	51.87	-8.54	
Delta E Reading		3.09	-1.65	-0.94	3.63
TUFF COVER™ LAM. CYAN	Initial	60.55	-31.11	-38.81	
CurrentWash		61.22	-32.94	-30.42	
Delta E Reading		0.67	-1.83	8.39	8.61
TUFF COVER™ LAM. BLACK	Initial	27.76	-0.28	-2.16	
CurrentWash		29.25	-0.23	-2.12	
Delta E Reading		1.49	0.05	0.04	1.49