

6H00-SERIES product **POLYURETHANE** information

Cardinal'6H00-Series is a high-solids aliphatic two component polyurethane coating. This coating is well suited exterior applications on metal substrates. The 6H00-Series was formulated to meet strict air quality regulations, while maintaining the application and performance benefits of a conventional polyurethane coating

TYPICAL USES:

• Top coat for decorative and protective

- use on metal
- General metal finishing
- Trailer and vehicles
- Machinery

BENEFITS:

- · Free of Hazardous Air Pollutants (HAPS)
- Low VOC content
- · Excellent Durability
- · RoHS / WEEE compliant

CURED FILM PROPERTIES:

Testing conducted on 6H08-5832 gloss white at 2.0 mils DFT (Dry Film Thickness) over 20 gauge Acrylic plastic test panels, force dried 30 minutes at 180°F, then air dried for 14 days.

	<u>TEST</u>	METHOD	PARAMETERS	RESULT	
_	Adhesion	ASTM D3359	Cross-hatch tape	0% failure	_
_	Impact:	ASTM D2794	Direct Reverse	130 in. lbs. 60 in. lbs	
	Flexibility:	ASTM D1737	1/4" mandrel	No cracking	
	Hardness	ASTM D3363	Pencil	H - 2H	
	Abrasion	ASTM D4060	CS-17 wheels, 1 kg, 1000 cycles	Less than 100 mg loss	
	Humidity	ASTM D2247	168 hrs	No effect	
	Salt Spray	ASTM B117	1000 hrs 95°, 5% salt solution	Less than 3/16" creep - along scribe, otherwise, no effect	
	UV Light	ASTM G53 QUV "A"	500 hrs	80% gloss retention	
_	Solvent Resistance	ASTM D4752	MEK 100 rubs IPA 200 rubs	No effect No effect	_
_	Chemical & Stain Resistance	ASTM D1308 30 min. spot A: No effect B: Slight dulling C: Moderate effect D: Discolored & softened	butyl cellosolve, Cascac coffee, diethyl ether, Dra floor stripper, gasoline, l lemon juice, Snap®, Sp oil, water base ink, WD-	arbon disulfide, correction fluid,	

FOR INDUSTRIAL USE ONLY NOT FOR RESIDENTIAL USE TYPE: Aliphatic polyester polyurethane.

COMPONENTS: Two.

COLORS: Full range including metallics.

GLoss: High, Semi gloss and flat.

COVERAGE: At 1.0 mil DFT. 65% transfer efficiency (TE)

MIXED PAINT, 3.4LBS/GAL: 345 ft²/gal.

Calculation: 1604 ft2/gal x % volume solids x TE ÷ DFT

VOC: (as supplied)

374 grams/liter = 3.1 lbs/gal less water 196 grams/liter = 1.6 lbs/gal including water

VOLUME SOLIDS:

6H00 GLOSS BASE 30% 6HHP 50% Mixed to 3.5 lbs/gal 33%

FLASH POINT: 24°F TCC

SHELF LIFE: 1 year from date of manufacture in factory

sealed container.

Mix Ratio: Two components must be mixed properly to obtain coating performance. Thinning depends on

applicator's regulatory VOC limits.

Parts are	COLORS
by volume	GLOSS
6H00-Base 6HHP	4

APPLICATION: Thoroughly stir or agitate paint before applying. This material is designed for spray application. Brushing, rolling and dipping are not recommended. See surface preparation and priming section for further instructions.

Thinning: After mixing material is ready to spray. Avoid over thinning.

Viscosity: 20" - 30" seconds, #3 Zahn cup at 78°F. Will vary depending on color.

RECOMMENDED DFT: 1.5 – 2.5 mils (depending on color)

Cure: Air Dry

> Tack free 2 hrs. Dry to handle 24 hrs. Dry hard 72 hours

Force Dry

Dry hard 1 hour at 140° F 30 min. at 180° F

(At 1.5 mils dry film thickness, 78° F, 50% RH)

(Continued on page 2)

91733 (323) 283-9335 1329 Potrero Ave. (626) 444-9274 So. El Monte, CA Fax (626) 444-0382 6H00-SERIES Page 2

REPAIR OR REFINISHING: Clean surface to be repainted, remove dirt, grease, oil, and all other contaminants. Abrade surface if necessary. Tack surface clean.

SURFACE PREPARATION AND PRIMING: The most important steps in a successful coating process are cleaning, pretreatment and priming. The following is a brief outline of some basics for unpainted substrates. It is not intended to be all-inclusive. For more information on your particular application contact Cardinal.

Cleaning the substrate: All surfaces to be coated, must be free of dirt, grease, oil, oxidation, mill scale, and all other contaminants. The surface must be thoroughly dry before painting. Air quality regulations have limited the allowable emissions from cleaning operations.

Steel — A phosphate chemical conversion coating is highly recommended. When this is not possible, apply directly to a clean surface a uniform coat of 4W02-E04626.

Aluminum — A chemical conversion coating is highly recommended. When this is not possible, a vinyl acid wash pretreatment primer is recommended such as Cardinal's 4860 series primers.

PRIMER SELECTION:

PRODUCT NO.	DESCRIPTION	FUNCTION
6460-4702	Polyurethane Gray	Corrosion resistance
7760-4702	Epoxy Gray	Corrosion resistance
7260-4702	Ketamine Gray	Corrosion resistance

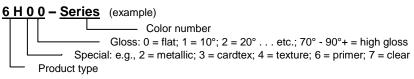
Related Products

telated i roddots.				
DESCRIPTION				
Slow Reducer				
Exempt Slow Reducer				
Slow Reducer				
Surface Additive				

Trouble Shooting:

PROBLEM	CAUSE	REMEDY					
Too thin / low viscosity	Over reduced.	Remix at correct ratio					
Dry spray	High atmospheric temperature. Over atomization Gun to part distance	Increase fluid pressure & decrease atomizing pressure. Reduce with SB-17: 1% - 2%. Add SB-17 at rate of 1 oz./gal.					
Craters	Contamination of substrate, application equipment or environment.	Find and eliminate source of contamination. When craters persist, add ½ oz./gal of 6SLA-100 additive.					
Poor adhesion Improper surface preparation.		See surface preparation section.					

PRODUCT IDENTIFICATION



EQUIPMENT CLEAN-UP: 1000-13 should always be used for primary cleaning. If something different is needed exempt solvents can be used for secondary cleaning, air quality regulations, in your area may have limited the allowable emissions from cleaning operations.

Product Limitations:

· Storage stability is limited to 6 months.

SAFETY: Refer to the product's Material Safety Data Sheet (MSDS) for complete safety information.

Contains organic solvents. Use with adequate ventilation. Do not breathe vapors or spray mists. If component TLVs are exceeded, a NIOSH approved air supplied respirator is advised. See MSDS for TLV information.

Contents are FLAMMABLE. Keep from heat, sparks or open flame.

Allergic reactions are possible. Avoid use by persons with respiratory problems.

Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

FIRST AID:

Eye contact: flush immediately with plenty of water for at least 15 min. and get medical attention.

Skin contact: wash thoroughly with soap and water for 5 minutes.

If swallowed, do not induce vomiting, get medical attention immediately.

G12TL