

product information

7760 PRIMER SERIES LOW VOC EPOXY PRIMER

Cardinal's 7760- series is a two-component epoxy primer. 7760- Series epoxy primer is well suited for metal surfaces that require weather, corrosion and chemical resistance applications are required.

TYPICAL USES:

- · Steel enclosures
- · Utility trailers
- · Heavy duty equipment

BENEFITS:

- Low V.O.C.
- · Free of heavy metals
- Excellent chemical and solvent resistance
- RoHS / WEEE compliant

CURED FILM PROPERTIES:

Testing conducted on 7760-4702 flat light gray, catalyzed with 77EH at 1.5 mils DFT (Dry Film Thickness) over 20 gauge Bonderite 1000® test panel cured 30 minutes at 180°F and air dried 14 days.

TEST	<u>METHOD</u>	<u>PARAMETERS</u>	RESULT
Adhesio	n ASTM D3359	Cross-hatch tape	0% failure
Hardnes	s ASTM D3363	Pencil	F- H
Salt Spra	ay ASTM B117	1000 hrs 95°, 5% salt solution	Less than 3/16" creep - along scribe, otherwise, no effect
Solvent Resistar	ASTM D4752	MEK 50 rubs IPA 100 rubs	No effect No effect

Cure: Air Dry – ambient air temperature @ 78° F

catalyst	dust free	tack free	dry to handle	recoat	dry hard	full cure
77EH	5 min	5 - 10 min	1 - 2 hrs	2 hrs – 7 days	48 hrs	7 days

No Force Curing Prior to Topcoat

FOR INDUSTRIAL USE ONLY NOT FOR RESIDENTIAL USE

Түре: Ероху.

COMPONENTS: Two.

CoLors: Light Gray, Black, White and Red Oxide

GLoss: Flat 0 - 5° @ 60 ∠

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

Mixed paint, 2.1 lbs/gal: 620 ft²/gal.

Calculation: 1604 ft2/gal x % volume solids x TE ÷ DFT **VOC MixED**: 250 grams/liter = 2.1 lbs/gal Excluding 110 grams/liter = 1.5 lbs/gal Including

See mix ratio table below.

VOLUME SOLIDS:

FLASH POINT:

7760-4702	7760-08, 7760-10, 7760-31	method
-4° F	-4° F	TCC

SHELF LIFE: 1 year from date of manufacture in factory sealed container.

APPLICATION: After preparing the surface, thoroughly mix component 1 before adding catalyst. Mix only the amount of material needed. The base to catalyst proportion must be measured accurately, by volume only, to obtain optimum film properties. Do not use reducers that contain water or alcohol; these react with the catalyst and can cause a variety of problems. Be aware of spray-able pot life. Brushing, rolling and dipping are not recommended.

MIX RATIOS: Two components must be mixed properly to obtain coating performance. Thinning depends on applicator's regulatory VOC limits.

Mix	parts by volume
7760 base	10 parts
77EH catalyst	1 part
SB-32	4 part
VOC =	2.1 lbs/gal

VISCOSITY: At 2.1 lbs/gal, the 7760 series primer will be in

the 20"-25" #2 Zahn range.

SPRAY-able Pot Life: 2-3 hrs. at 2.1 lbs. VOC/gal

RECOMMENDED DFT: 1.0 - 2.0 mils

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

- 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, a vinyl acid wash pretreatment primer is recommended such as Cardinal's 4860 series primers.
- 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.
- Galvanized Cardinal's W-303-A surface preparation solution helps improve adhesion followed by a vinyl acid wash pretreatment primer such as Cardinal's 4860 series primers.
- Stainless Steel Brush-off or blast clean per SSPC-SP 7 to a uniform profile of 1.5 mils. Cardinal's W-303-A surface preparation solution can help improve adhesion followed by a vinyl acid wash pretreatment primer such as Cardinal's 4860 series primers.

PRIMER SELECTION:

PRODUCT NO.	DESCRIPTION	FUNCTION	
4860 Series	Acid etching pre-treatment primers	Corrosion resistance, some surfacing	

RELATED PRODUCTS:

PRODUCT NO.	DESCRIPTION / FUNCTION	
HP-439	Medium reducer.	
J-3081	Surfactant. Helps eliminate blisters, bubbles, pin holes, solvent-pop.	
6400- Series	High Solids Polyurethane	
SB-32	Medium Reducer	

TROUBLE SHOOTING:

PROBLEM	CAUSE	REMEDY
Blisters, pin	Water contamination.	Eliminate water – Check air lines. Use fresh
holes or	Entrapped air.	catalyst. Use urethane grade thinners.
solvent pop	Entrapped solvent	Increase atomization, decrease film build.
Craters	Contaminated ambient air,	Locate and eliminate source of contamination.
	e.g., silicone mist, dust.	
Fish-eyes	Substrate contamination.	Clean and prepare substrate.
Not drying	Alcohol in reducer.	Use Cardinal's 1600 series or urethane grade
	Wrong catalyst ratio.	reducers only.
		Double check mix ratio.
Poor	Improper surface	See surface preparation section.
adhesion	preparation.	
Gloss	Variation in application, cure	Consistent gloss depends upon consistent
variation	schedule, catalyst ratio,	process, e.g., air dried parts will not have same
	humidity.	gloss as force dried parts.

APPLICATION EQUIPMENT: Most air quality regulations require the paint application transfer efficiency to be 65% or better. This generally means using electrostatic or high volume low pressure (HVLP) spray guns. Otherwise, conventional pressure feed, airless or air assisted airless spray equipment can be used. Air supply lines need water and oil traps.

EQUIPMENT CLEAN-UP: Clean up should be done as soon as possible keeping in mind the pot life of the mixed paint. Avoid leaving catalyzed paint in the lines. Air quality regulations have limited the allowable emissions from cleaning operations.

PRODUCT LIMITATIONS:

- 77EH is not recommended for outdoor exposure or UV radiation.
- Catalyst reacts with water. Air supply should be dry.
 Containers should be kept tightly closed. Use urethane grade thinners only.
- Alcohols and glycols interfere with curing chemistry and should be avoided. They can be found in some lacquer thinners and certain synthetic reducers.
- Optimum film properties are dependent upon proper mixing of paint and catalyst.

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.

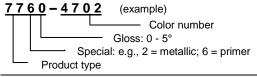
FIRST AID:

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 and get medical attention immediately.

PRODUCT IDENTIFICATION



G12TL