



# Dampney Protective Coatings

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## Protexior 795 Chemical Resistant Primer/CUI Coating

### Description

A two-component, general purpose, high performance VOC compliant primer for service in moderate to severe chemical and corrosion exposures for insulated and un-insulated surfaces. Protexior 795 Primer is the primer for Protexior 794 Chemical Resistant Epoxy/CUI Coating.

### Recommended Uses

Typical uses include

- Transformers and vessels
- Valves, piping and pumps
- Containment areas
- Ducts, plenums and baghouses

### Features

- Excellent chemical and corrosion resistance
- Ease of mixing
- Can be applied by brush, roller or spray
- Will withstand temperatures up to 450°F (232°C)

### Surface Preparation

**Carbon Steel:** Remove all oil, grease, soil, drawing and cutting compounds and other foreign matter per SSPC SP1, "Solvent Cleaning". All surface area to be coated shall be prepared in accordance with SSPC-SP 10 (NACE 2) "Near White Blast Cleaning" with a sharp angular blast profile of 1.5 to 3.0 mils (37-75µm). All surface area shall be free from dust, dirt and debris before coating application begins.

**Stainless Steel, Galvanized and Aluminum:** Remove any oil or grease by solvent cleaning, using Dampney 170 Cleaning Solvent, following the requirements of SSPC SP 1 "Solvent Cleaning". All surface area to be coated shall be prepared in accordance with SSPC-SP16 /NACE 7 with a sharp angular blast profile of 1.5 to 2.5 mils (37-62µm). All surface area shall be free from dust, dirt and debris before coating application begins.

**Concrete Surfaces:** Follow instructions listed in the Protexior 793 Clear Bulletin for surface preparation and application instructions of sealer/primer for concrete.

### Mixing

Mixing ratio is 4 parts (A Base) to 1 part (B Activator) by volume. Using an air driven explosion proof power mixer, mix each component separately, then combine and mix thoroughly until uniformly blended.

### Thinning

Formulated for use as supplied. If required add no more than 3% by volume Dampney thinner 162 or Dampney Thinner 178 VOC exempt thinner.

### Pot Life

The Pot life is 8 hours at 75°F (23.9°C) and 50% RH. Pot life will vary with temperature and decreases as temperature increases. For limitations see physical properties section. Do not apply coating that has aged beyond the pot life limit as spraying characteristics and film integrity may be impaired.

### Application Guidelines

Apply by conventional or airless spray, brush or roller. The following equipment, or equivalent, may be used:

#### Conventional Spray:

Use a pressure pot equipped with dual regulators	
DeVilbiss Spray Gun	JGA
Atomizing pressure	60 psi
Fluid pressure	25 psi.
Fluid Tip	EF
Air Cap	704
Material Hose	3/8"

#### Airless Spray:

Pump Ratio	30:1 (Min.)
Material Hose	½" I.D.
Tip Size	.014-.021"
Air pressure to pump	100 psi
Pump Pressure	80-90 psi
Output	2400-2700 psi
Filter size	60 Mesh

**Brush:** Use a natural bristle brush. Keep a wet edge at all times.

**Roller:** Use a solvent resistant roller with nap sized for the application of this primer.

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### Application Procedure

Do not apply Protexior 795 Primer below 50°F (9.9°C) or above 120°F (49°C). Do not apply primer or finish coat unless the surface temperature is 5°F (3°C) above the dew point.

Clean or flush all application equipment with Dampney 100 Thinner before use. See mixing instruction before starting application. Use "Crosshatch" method with 50% overlap in each pass to avoid pinholes and holidays. Pre-coat all edges, welds, corners, bolts and rivets, etc. Exercise care to prevent sags or runs.

### Storage

Store in a cool, dry place with temperature between 50°F (9.9°C) and 85°F (29.4°C).

### Clean up

Thoroughly flush equipment and hoses immediately after use with Dampney 100 Thinner. Dismantle spray equipment. Clean Parts, brushes and roller with Dampney 100 Thinner.

### Shipping Weight

	1gal.unit	5 gal. unit
Protexior 795 (Mixed)	13 lbs.	65 lbs.
Protexior 795 A	11.4 lbs.	57 lbs.
Protexior 795 B	1.7 lbs.	8.5 lbs.

### Precautionary Information

#### Warning: Flammable Liquid and Vapor

Keep away from heat, sparks and flame. Vapors may cause flash fire. Do not breathe vapors or spray mist. Avoid contact with eyes, skin and clothing. Use adequate ventilation during mixing and application. Wear an appropriate, properly fitted organic vapor cartridge-type respirator (NIOSH approved)

During and after application unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Wash thoroughly after handling. Wear Protective gloves, chemical safety goggles and impervious protective clothing. Use skin cream.

In confined spaces it is required to use a positive pressure supplied-air respirator (NIOSH approved). Use explosion-proof lights and electrical equipment. Use only non-sparking tools and equipment. Wear conductive and non-sparking footwear. Make certain all electrical equipment is grounded. Observe all safety precautions and follow procedures described in OSHA regulations.

**See Material Safety Data Sheet (MSDS) for complete precautionary and disposal information.**

**If instruction and warnings cannot be strictly followed, do not use this product.**

**For Industrial Use Only**

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### Physical Properties

Characteristic	Protexior 795 Epoxy Primer		
Generic Type	Epoxy		
Color	Red		
Finish	Flat		
Number of components	Two		
Mixing Ratio by volume	4:1		
Weight per gallon(mixed)	22.5 lbs.		
Viscosity at 75°F	66 – 68 KU		
Solids by Volume	60%		
Temperature Resistance	450°F (232°C)		
Continuous	450°F (232°C)		
Dry film thickness per coat	4.0 to 6.0 mils (100-150µm)		
Wet film thickness per coat	7.0 to 10.0 mils (175-250µm)		
Theoretical coverage per gallon	962 sq. ft. @ 1 mil (23.8m <sup>2</sup> /liter at 25µm)		
Application temperature	Normal	Minimum	Maximum
Ambient air	65-85°F (18-29°C)	50°F (10°C)	100°F (38°C)
Substrate	65-85°F (18-29°C)	50°F (10°C)	120°F (49°C)
Coating materials	65-85°F (18-29°C)	55°F (13°C)	90°F (32°C)
Humidity	20-75 %	0%	85%
Drying time	50°F(10°C)	75°F(23.9°C)	90°F(32°C)
To Touch	24 hrs.	12 hrs.	10 hrs.
To Recoat	48 hrs.	12 hrs.	10 hrs.
Maximum recoat time	5 days		
Final Cure	7 days at 75°F(23.9°C)		
Pot life	4 hours at 75°F (23.9°C)		
Flash Point			
Part A	40°F(4.4°C)		
Part B	-4°F(-20°C)		
Shelf Life	1 Year		
VOC (Volatile Organic Compounds)	0.77 lbs./gal (93 g/l)		

**WARRANTY** Dampney protective coating products are expressly warranted to meet applicable technical and quality specifications. The technical data contained herein are accurate at the date of issuance but are subject to change without prior notification. No warranty of current accuracy is hereby given or implied. User must contact Dampney to verify correctness before ordering. Dampney assumes no responsibility for coverage, performance or injuries resulting from handling or use and **LIABILITY, IF ANY, SHALL BE LIMITED TO PRODUCT REPLACEMENT.** In no event will Dampney be responsible for consequential damages, except insofar as mandated by law. Dampney **DISCLAIMS ALL OTHER WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**