



Dampney Protective Coatings

Endcor® 8898 Silicone-Alkyd Copolymer Self Priming Coating

Description

A high-performance, high solids, self priming, high gloss, hard, durable coating for use on steel surfaces. Complies with state VOC (Volatile organic content) emission control regulations. Compared to conventional alkyd paints it provides a wide range of improved properties, including significantly improved gloss retention and chalking resistance, reduced color fade, continuous film integrity, and temperature resistance.

Recommended Uses

- Cast valve bodies
- Cast iron and steel surfaces
- Structural steel, pipes, and tanks
- Low temperature stacks

Features

- Long-term durability and weather resistance
- Excellent gloss and color retention
- Resistant to chalking, UV radiation, humidity, moisture, salt spray and chemical atmospheres
- Self priming corrosion protection
- Can be applied over solvent cleaned surfaces

Not Recommended For

- Immersion service
- Galvanized or Aluminum surfaces

Primer Required

Self priming, apply one or two coats of 8898 to prepared carbon steel surfaces.

Surface Preparation

To ensure optimum long-term coating system performance, surfaces must be clean, dry and free from oil, grease, dirt, salts, welding flux, mill scale, rust corrosion products, oxides, old paint, visible and non-visible contaminants or other foreign matter.

After completion of preliminary surface preparation work, clean all surfaces following "SSPC-SP 1 solvent cleaning standard" using a non-film forming solvent such as Dampney 170 cleaning solvent.

Mixing

Redisperse any settled-out pigments by thorough mixing to a uniform homogeneous consistency with an explosion proof or air driven power mixer. Do not open containers until ready. Keep Lid on container when not in use.

Application Guidelines

Surface temperature must be at least 5°F (3°C) above dew point. Apply one or two coats of Endcor 8898 over properly cleaned and dry surfaces to a dry film thickness of 3.0-4.0 mils (75-100 µm) per coat. During spray application, hold gun at the required distance from the surface and at right angles without arching while spraying. Overlap each pass 50% to achieve a uniform finish. Use "Crosshatch" method with 50% overlap on each pass to avoid pinholes and bare areas. On irregular surfaces, coat all edges first. Exercise care to prevent sags or runs. Stripe coating by brush should be used to coat difficult to coat areas, edges and weld seams prior to the first full coat application. During brush and roller application, any settled pigment on the bottom of the can should be reincorporated back into suspension of the liquid coating, prior to being applied to the surface. Stripe coat material should be thinned approximately 20% by volume with the recommended Dampney 105 thinner. During application of Endcor 8898 ventilate area with high volume of air. Always utilize and follow good painting practices. Flush spray equipment with Dampney 105 Thinner before use.

Application Equipment

Endcor 8898 may be applied by conventional spray, airless spray, brush or roller. Do not apply Endcor 8898 in heavier films than specified since blistering, cracking or solvent entrapment may occur. For conventional spray provide material pot with regulators for fluid and air pressure and oil and moisture traps in supply line. Smaller diameter hose may require increased pressure.

Bulletin 8898

Conventional Spray (Preferred spray method):

Spray gun	DeVilbiss MBC-510
Air Cap	704
Fluid Needle	JGA-402-FF
Fluid tip	FF
Fluid hose*	3/8" ID
Air hose	5/16" ID
Atomizing pressure*	40-50 psi

*Smaller hose diam. or length over 25 ft. may require increased pressure.

Airless Spray:

Spray gun	Graco 205-591, 208-663
Pump	Graco 30:1 or Greater
Fluid tips*	.019 - .023
Fluid hose	3/8" ID with a 1/4" ID whip
Air pressure to pump*	40-60 psi

*Use Reverse-A-Clean® tips for fast, easy clean out. The above recommended air pressures are a guide and should be altered based on the operational condition of the spray pump and ambient climatic conditions. The minimum amount of air pressure should be used that is required to produce a proper spray fan.

Brush: Use only pure bristle brushes. Apply the coating in sweeping strokes, overlapping the brush strokes. If the surface to be coated is pitted, work the coating into the porosity of the surface without allowing the coating to puddle.

Roller: Use solvent resistant 1/2" (12 mm) nap roller cover with phenolic core. Do not flood surface with coating. Roll out excess coating on a suitable, screened surface. Then roll out thoroughly, maintaining a continuous wet edge and uniform appearing paint film. Care should be taken during roller application to ensure the required wet film thickness is being achieved. With roller application additional coats may be needed in order to achieve the recommended dry film thickness. Note: Spray application will result in the finest finish when compared to brush and roller applications.

Thinning

Only thin Endcor 8898 with Dampney 105 Thinner a maximum of 5% by volume. Dampney 105 thinner can be used if encountering dry spray and for other application related conditions. When reducing Endcor 8898 for viscosity use thinners cautiously. The addition of a small amount of thinner will cause a large reduction in coating viscosity. Excessive thinning will impair wet film thickness and will cause runs and sags and change the VOC content of the coating. For conventional spray

use adequate air pressure and volume to obtain proper atomization. Do not thin beyond federal, state and/or local VOC (volatile organic compound) emission regulations. Note: Use of other thinner not approved by Dampney may hinder product performance and void product warranty, whether expressed or implied.

Dry time 70°F (21°C)50% RH

Dries to touch in 2 hours at 77°F.

Cleanup

Thoroughly flush all application equipment and hoses immediately after use with Dampney 105 Thinner. Dismantle spray equipment and clean parts and brushes with Dampney 105 Thinner.

Storage

Store in cool, dry place with temperature between 50°F and 100°F (10°C and 38°C). Keep container closed when not in use.

Precautionary Information

WARNING: FLAMMABLE LIQUID AND VAPOR.

Combustible 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 with 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 nonsparking tools and equipment. Wear conductive and nonsparking footwear. Make certain all electrical equipment is grounded. Observe all safety precautions and follow procedures described in OSHA regulations. See Safety Data Sheet (SDS) for complete precautionary and disposal information. If instructions and warnings cannot be strictly followed, do not use this product. If instructions and warnings cannot be strictly followed, do not use this product.

KEEP OUT OF REACH OF CHILDREN.

FOR INDUSTRIAL USE ONLY

TECHNICAL DATA

Characteristics	Endcor 8898		
Generic Type	Silicone Alkyd Copolymer		
Color	Gray		
Finish	Gloss		
Number of Components	One		
Percent Solids by Volume	60±3		
Weight per Gallon	11.32 lbs ± 0.3 lbs. Per gal. (1.35 ± 0.4 kg/l)		
Viscosity	70 ± 5 ku		
Temperature resistance			
Continuous	300°F (149°C)		
Intermittent	350°F (177°C)		
Dry film thickness per coat	3.0 – 4.0 Mils (75 – 100 microns)		
Wet film thickness per coat	5.0 – 7.0 Mils (125 – 175 microns)		
Theoretical coverage per gallon	240 sq. ft. per gallon (5.89 m ² /liter)		
Application temperature @ 50% RH	Normal	Minimum	Maximum
Ambient Air	55-90°F (13-32°C)	40°F (4°C)	120°F (49°C)
Substrate	55-90°F (13-32°C)	40°F (4°C)	160°F (71°C)
Coating Material	50-90°F (10-32°C)	40°F (4°C)	120°F (49°C)
Humidity	30-80%	0%	80%
Drying time @ 77°F (25°C)			
To touch	2 hours		
To recoat	16 – 24 hours		
Final cure	7 days		
Flash Point	100°F (38°C)		
Shelf Life	1 year (when stored properly in original unopened containers, indoors and out of the weather)		
Volatile organic compounds	2.55 lb./gal. (305.6 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.