



Dampney Protective Coatings

Endcor 745 Epoxy Coating

Description

Endcor 745 is a two-component epoxy based coating. It provides a tough, adherent, high-gloss, friction and corrosion resistant surface.

Endcor 745 is formulated for application to interior surfaces of steel oil filled pipe type cable electrical power distribution systems. This coating system is also used to protect oil filled sumps, gear boxes, end casings, bearing boxes and other oil filled containment vessels that operate at elevated temperatures.

Features

- IEEE approved coating.
- Accepted by all major electric utilities and cable manufactures.
- Has no effect on the electrical properties of oil used in casing.
- Acceptable for both high and low voltage installations.
- Provides internal corrosion protection during shipment and storage.
- Corrosion protection for internal surfaces of bearing boxes, gear boxes, oil filled sumps, etc.
- Will withstand pH changes in gear and casing oils when exposed to elevated operating temperatures.

Surface Preparation

Internal surfaces must be cleaned following SSPC SP 1 "Solvent Cleaning" or flame cleaned and all surfaces must be free of oil, grease, rust, mill scale, rust deposits, moisture and surface imperfection that will affect the adhesion of a protective coating to a substrate.

For best results blast all surfaces to SSPC SP 10 "Near White Blast" leaving all surfaces after blasting with a 1.5 – 2 mil profile depth anchor pattern. An other acceptable method of surface preparation for gear boxes, etc, is SSPC SP 11 "Power Tool Cleaning To Bare Metal" using a air operated disc sander, prep all surfaces using 60 grit sand paper. Avoid burnishing surfaces to be coated.

Mixing

Endcor 745 is a two-component coating that cures by chemical reaction. Blend by volume 2 parts of base component with 1 part of activator component. Mix thoroughly, using a power mixer. For proper spraying, viscosity must be in the range of 20-35 seconds #4 Ford Cup. If thinning is required, use Endcor 124 Thinner. After complete mixing wait 30 Minutes before using. **DO NOT MIX MORE ENDCOR 745 THAN CAN BE USED IN ONE DAY.**

Application

Apply Endcor 745 using a power turning unit that rotates the pipe slowly, insert a power operated lance with a offset spray head attached and spray while withdrawing the lance at a fix speed, applying the coating at a wet film thickness required to meet the finish dry film thickness requirements. For pipe type cable systems apply one coat at 1.5- 2 mils dry film thickness. For oil filled gear boxes, sumps, etc., apply two coats at 1.5 -2 mils. for a total dry film thickness of 3 -4 mils.

Do not apply when steel temperature is below 50°F (10°C) or if relative humidity or exceeds 80% RH. Temperature of steel surfaces during application must not exceed 130°F (54°C).

Thinning

Endcor 745 can be thinned by using Dampney 124 Thinner.

Dry time 70°F (21°C) 59% RH

Endcor 745 will air dry tack and thumb print free within 90 minutes and full cure after 7 days.

Clean up

Thoroughly flush spray equipment and hoses immediately after application is finished, use Dampney 124 Thinner. Dismantle spray equipment and clean parts with Dampney 124 Thinner.

Storage

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

Endcor 745

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 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 manufacture's directions for 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 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 Sheets (MSDS) for complete precautionary and disposal information.

If instructions and warnings cannot be strictly followed do not use this product.

For industrial use only

Technical Data

Characteristics	Endcor 745
Generic Type	Polyamide Epoxy
Mix ratio	2:1
Color	Red
% Solids by volume	55%
Dry film thickness per coat	1.5-2 mils
Wet film thickness per coat	3-4 mils
Theoretical Coverage*	880 mil sq. ft. per. gal.
Application Temperature	50°-130°F (10°- 54°C)
At 50% RH	
Drying time @ 50% RH	70°F (21°C)
To Touch	90 minutes
To Recoat	2 hours
To Handle	3 hours
To Ship	7 days full cure
Weight per gallon	
Base	11.1 lbs. (5.0 kg.)
Activator	7.5 lbs (3.4 kg.)
Pot life at 77°F (25°C)	12 hours
Shelf life	1 year
Volatile organic compounds	3.44lb./gal.(412.8g/l)

* Actual coverage rate will vary depending upon material losses during mixing and application, and upon type and conditions of surface to be coated. Allowance must be made for losses when estimating material requirements.

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