



Thurmalox® 270V OEM Fast Dry VOC Compliant OEM Coating Heat Resistant to 1200° F

Description

Thurmalox 270V is a high performance, heat resistant, VOC compliant silicone coating designed for original equipment manufacturers. Thurmalox 270V provides film integrity and adhesion up to 1000° F (538° C) with peaks to 1200° F (648° C).

Recommended Uses

- Original equipment manufacturers
- Exhaust equipment
- Hearth accessories

Features

- VOC Compliant
- Complies with BAAQMD 8-3-225 and SCAQMD Rule 1113
- Resistant to thermal cycling
- Excellent color stability
- Good early film hardness for shop applications

Not Recommended For

- Immersion service
- Direct contact with flame
- Cooking surfaces

Surface Preparation

1. To ensure optimum long term coating system performance, surfaces must be clean, dry, and free from dirt, oil grease, salts, welding flux, oxides, old paint, or other foreign matter.
2. Prepare surface by power washing, vapor degreasing, solvent cleaning, or other chemical and mechanical methods.
3. Methods recommended will depend upon type of foreign matter to be removed and condition of substrate. Consult Dampney Technical Service for specific recommendations.

Mixing

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

Application Guidelines

1. One coat of Thurmalox 270V applied at 0.75 - 1.0 mil (19 - 25 microns) is suitable for most OEM applications.

2. The number of coats of Thurmalox 270V series coating needed depends upon service conditions of equipment, surface preparation method and other factors. Please consult Dampney for specific recommendations.

Application Equipment

Thurmalox 270V may be applied by conventional spray or airless spray. Roller application is not recommended. Application by brush is also not recommended except for porous surfaces such as cast iron. Care should be taken to not over apply the product when being applied by brush. Do not apply Thurmalox 270V 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.

Conventional Spray

Spray gun	DeVilbiss MBC-510
Air Cap	58
Fluid Needle	JGA-402-FX
Fluid tip	FX
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*	.013 - .017
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: Not Recommended

Thinning

Only thin Thurmalox 270V series coatings with Dampney 145 or 167 (for warmer climates) Thinner. Note: Use of other thinners not approved by Dampney may hinder product performance and void product warranty.

Dry Time 70° F (21° C) 50% RH

Thurmalox 270V will air dry tack and thumb print free in 15 minutes and will dry hard in 8 to 12 hours. Allow 1-hour minimum dry time between coats.

Cleanup

Thoroughly flush spray equipment and hoses immediately after use with Dampney 100 Thinner. Dismantle spray equipment and clean parts, brushes, and rollers with Dampney 100 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.

Precautionary Information

DANGER: Highly 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 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.

FOR INDUSTRIAL USE ONLY.

TECHNICAL DATA

Characteristics	Thurmalox 270V		
Generic Type	Silicone		
Color	Black		
Finish	Flat		
Temperature resistance			
Continuous	1000°F (538°C)		
Intermittent	1200°F (649°C)		
% solids by volume	20 (+/- 2%)		
Dry film thickness per coat	0.75 - 1.0 mils (19 - 25 microns)		
Wet film thickness per coat	4 - 5 mils (100 - 125 microns)		
Theoretical coverage	320 ft²/gallon (7.8 m²/liter @ 25 microns) DFT		
Application temperature @ 50% RH	60-90° F (16-32° C)		
Drying time @ 70° F (21° C) 50% RH	To touch 15-20 minutes	To handle 20-30 minutes	To recoat 1-2 hours
Weight per gallon			
Thurmalox 270V	8.7 lb. (4.0 kg.)		
Dampney 145 Thinner	6.6 lb. (3.0 kg.)		
Dampney 167 Thinner	11.2 lb (5.0 kg)		
Flash point (Pensky Martens)	-4°F (-20°C)		
Shelf life	1 year (when stored in its original unopened container indoors and out of the weather)		
Volatile organic compounds	3.1 lb./gal. (371 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.**