



Dampney Protective Coatings

Thurmalox[®] 270 Series Stove and Hearth Accessories Coating Heat Resistant to 1200°F Standard and Custom Colors Packaged in Quarts

Description

Thurmalox 270 series coatings are high temperature, fast drying formulations based on silicone resins and thermally stable pigments. They are formulated specifically to protect stoves (wood, coal, gas, pellet, etc.), hearth equipment and other metal surfaces operating at temperatures up to 1200°F (648°C). Thurmalox 270 series coatings provide outstanding adhesion, film integrity, color stability and thermal shock resistance throughout this entire temperature range. For exterior applications, use Thurmalox 245 Primer to seal surface and prevent rusting.

Thurmalox 270 series coatings are available in multiple colors. See color chart at www.stovepaint.com.

Recommended Uses

- Stoves (wood, coal, pellet, gas, etc.)
- Stove pipe
- Free-standing fireplaces and fireplace inserts
- Fireplace hoods, screens, and accessories
- Furnaces and heaters
- Engines, manifolds, mufflers

Features

- Withstands intense heat to 1200°F (648°C)
- Will not peel, flake or chalk
- Won't bleach or discolor
- Withstands repeated thermal cycling
- Dries for handling in 15 minutes
- Long-lasting
- Available 12 oz. aerosol cans for touch-up
- Resistant to scratching and marring

Not Recommended For

- Immersion service
- Direct contact with flame
- Cooking surfaces
- Porcelain 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. Surface cleaning 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 pigments by stirring with a paint paddle. Do not open containers until ready to use. Keep lid on container when not in use.

Application Guidelines

1. One coat of Thurmalox 270 series coatings at 1.0 mil (25 microns) is suitable for use on stoves and other hearth accessories.
2. For optimum protection, apply two coats of Thurmalox 270 series coatings to a dry film thickness of 1.0 mil (25 microns) per coat. Total recommended dry film thickness is 2.0 mils (50 microns).
3. The number of coats of Thurmalox 270 series coatings needed depends upon service conditions of equipment.

Application Equipment

Apply by brush, airless, conventional or HVLP spray methods. Application by roller is not recommended.

Thinning

Not recommended.

Dry Time at 70°F (21°C), 50% RH

Thurmalox 270 series coatings 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 at 70°F (21°C) and 1/2 hour minimum dry time between coats at 90°F (32°C). Coating has excellent recoat properties. **Heat curing will provide optimum film properties. Provide ventilation when firing unit for the first time after painting.**

Cleanup

Clean up tools with acetone, MEK or toluene.

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
 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. Observe all safety precautions and follow procedures described in OSHA regulations. See Material Safety Data Sheet (MSDS) for complete precautionary and disposal information.

If instructions and warnings cannot be strictly followed, do not use this product. Do not paint on hot surfaces.

TECHNICAL DATA

Characteristics	Thurmalox 270 Quarts
Generic Type	Silicone
Color	Black, Satin Black and custom colors
Finish	Low sheen, satin black, metallic and clear gloss
Temperature resistance	
Continuous	1000°F (538°C)
Intermittent	1200°F (649°C)
% solids by volume	18 (varies with color)
Viscosity	300-450 cps (varies with color)
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 per quart	50 square feet per coat
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
Cure time	fire unit for full cure
Shelf life	1 year

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.**