

# Thurmalox® 217 Series

## Air Dry Silicone Coatings Heat Resistant to 232°C



### DESCRIPTION

**Thurmalox 217** series is a single component heat resistant coating based on modified silicone resins and thermally stable pigments. It is formulated to protect surfaces operating to 232°C. Thurmalox 217 series is intended as a finishcoat over Thurmalox 218/219 when it will not be insulated and will be exposed to ultra violet light and the environment. The 217 series topcoat system provides outstanding adhesion, film integrity, colour stability, corrosion-weathering, and resists thermal shock throughout its entire temperature range. Thurmalox 217 series coatings are available in a wide range of standard (see Master Colour Card) and custom colours.

### RECOMMENDED USES

- Finish coatings over Thurmalox 218/219 that will not be insulated

### FEATURES

- Air dries, easy to apply
- One component system
- Withstands continuous temperature to 232°C
- Outstanding heat and weathering resistance
- Excellent colour stability to 232°C
- Outstanding resistance to thermal shock

### NOT RECOMMENDED FOR

- Immersion service
- Service above 232°C
- Interiors of stacks, breeching and scrubbers

### NOT RECOMMENDED FOR

- To ensure optimum long-term coating system performance, surfaces must be clean, dry and free from dirt, oil, grease, salts, welding flux, mill scale, rust, oxides, old paint, corrosion products or other foreign matter
- Apply Thurmalox 217 over Thurmalox 218/219 and under the adjacent insulation and jacketing

### MIXING

- Re-disperse any settled out pigment by stirring with a paint paddle followed 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 - CS

Coating System	Thickness
Thurmalox 218 Primer	125-150 microns
Thurmalox 219 Topcoat	125-150 microns
Thurmalox 217 Finishcoat	50-62 microns

- Total Average DFT system is 300-362 microns

**Conventional spray is the recommended method of application, however Thurmalox 217 series coatings may also be applied by airless spray. Contact Speccoats technical service department for brush or roller application. Do not apply Thurmalox 217 series coatings in heavier films than specified since blistering may occur**

	Pump Ratio - 30 to 1 Min Nozzle Orifice - 11 to 15 Thou Tip Pressure - 100 Bar Min
	<ul style="list-style-type: none"> <li>• Air Assisted Airless</li> <li>• Pressure Pot - Pressure Feed Gun</li> <li>• Gravity Feed Gun</li> <li>• Various Nozzle sets are available to suit the guns</li> </ul>

**Brush** – Use only wooden-handle brush with short China bristles. Do not flood surface with coating. Brush out thoroughly, maintaining a continuous wet edge and uniform appearing paint film.

**Rollers** – use only wooden-handles roller with phenolic core and ¼-3/8” nap. No not floor 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

#### Thinning

Only thin Thurmalox 217 series coatings with Dampney 180 Thinner. Note that the use of other thinners not approved y Dampney may hinder product performance and void product warranty.

#### Clean Up

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

#### Clean Up

Store in a cool, dry place with temperatures between 10°C - 38°C. Keep container closed when not in use



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### DRY TIME 21°C 50% RH

Thurmalox 217 series coatings will air dry tack and thumb print free within 1-2 hours. Allow 8-12 hours dry time between coats. Allow 24 hours dry time prior to shipping and handling. Surface coated with Thurmalox 217 series coatings can be handles and shipped as long as shipping and handling procedures for thin filmed systems are followed. Avoid mechanical abrasion during shipping and handling. Allow one hour solvent flash off period before placing into service

### TECHNICAL DATA 217

Characteristics	Thurmalox 217
Generic Type	Modified Silicone
Colour	See Master Colour Card. Also Available in custom colours
Temperature Resistance	Continuous - 232°C Intermittent - 260°C
Percent Solids by Volume	41 +/- 3 %
Dry Film Thickness / Coat	50-60 Microns
Wet Film Thickness / Coat	112-137 Microns
Theoretical Coverage	15.7m <sup>2</sup> /lt at 25 microns
Application Temp. @50% RH	10°C -50°C
Cure Time 21°C @ 50% RH	To Touch – 1-2 Hours To Recoat – 8-12 Hours To Ship – 24 Hours
Cure Time 10°C @ 50% RH	To Touch – 2-3 Hours To Recoat – 10 Hours To Ship – 72 Hours
Weight per gallon Thurmalox 217 series Dampney 108 Thinner	4.5 kg 3.4 kg
Flash Point	27°C
Shelf Life	1 Year
Volatile Organic Compounds	520g/L

### PRECAUTIONARY INFORMATION

**WARNING:** Combustible Liquid and Vapour. Keep away from heat, sparks and flame. Vapours may cause flash fire. Do not breathe vapours or spray mist. Avoid contact with eyes, skin and clothing. Use with adequate ventilation during mixing and application. Wear an appropriate, properly fitted organic vapour cartridge-type respirator (NIOSH approved) during and after application unless air monitoring demonstrates vapour/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 instructions and warnings cannot be strictly followed, do not use this product.

**FOR INDUSTRIAL USE ONLY**

### 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.**