Datasheet

Thurmalox® 2600

Air Dry Series Self Priming Baghouse Coating Heat & Corrosion Resistant to 315 ºC

DESCRIPTION

Thurmalox 2600 series coatings are VOC compliant high performance silicone coatings formulated for the protection of the interior surfaces of Baghouse and other pollution control equipment exposed to a combination of high temperatures and aggressive environments. Thurmalox 2600 series coatings are designed to protect metal surfaces operating at temperatures up to 315ºC. they provide a tough, chemical and abrasion resistant film with excellent thermal shock properties. Consult Speccoats Technical Service on all projects when applying and/or specifying Thurmalox 2600 Series coatings.

RECOMMENDED USES

- Interior walls of boilers and furnaces
- Interior surfaces of breechings, ducts and stacks
- Insulated surfaces (carbon & Stainless Steel)
- Dry scrubbers

FEATURES

- Air Dries and self-priming
- Excellent heat, corrosion and chemical resistance
- Resistant to thermal shock and cycling temperatures
- VOC compliance – 420 g/l
- Forms a tough, abrasion resistant film

NOT RECOMMENDED FOR

- Immersion service
- Continuous exposure to temperatures above 315ºC

SURFACE PREPARATION

SURFACE PREPARATION – CARBON STEEL

1) To Ensure optimum long-term system performance, surface must be clan, dry and free from dirt, oil greases, salts, welding flux, mill scale, rust, oxides, old paint, corrosion products or other foreign matter
2) Remove all surface imperfections that will induce premature coating system failure. Chip or scrape off weld spatter. Grind down sharp and rough edges, gouges and pit
3) Abrasive blast surface as per specification SSPC-SP 10 “Near-White blast cleaning”, or per NACE Standard N0.2 to a profile depths of 25-55 microns minimum, with a 38micron anchor pattern being ideal. Abrasive used in blasting should be selected carefully from materials of mesh size required to produce the desired anchor pattern.

MIXING

Re-disperse any settled-out pigments by stirring with a paint paddle followed by thorough mixing to a uniform consistency with an explosion proof or air-driven power mixer. No not open containers until ready to use. Keep lid on container when not in use.

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APPLICATION GUIDELINES

Surface temperature must be at least 3ºC above dew point

UN-INSULATED CARBON STEEL

Coating System	Thickness
Thurmalox 2600-00 off White	100-125 microns
Thurmalox 2600-0108 Light Grey	100-125 microns
Thurmalox 2600-00 Off White	100-125 microns
Total Dry Film Thickness	300-375 microns

Thurmalox 2600 series coatings can be applied using conventional or airless spray equipment. Do not apply Thurmalox 2600 coating in heavier films than specified since blistering may occur

Airless Spray	• Pump Ratio – 30:1 • Fluid Tips – 11 – 15thou • Fluid Hose – 3/8 to ½" ID • Air Pressure to Pump – 100psi • Pump Operating Pressure 65-80 psi
Conventional Spray	• Fluid Tip – FX 1.1 mm tip • Air Cap – 704 • Fluid Hose – 3/8 ID • Air Hose – 5/16"ID • Atomizing Pressure – 40-4psi

APPLICATION PROCEDURES

1. Flush spray equipment with Dampney 160 thinner before use
2. Thinning of Thurmalox 2600 series coatings is not normally required for spray application, use up to ½ pint maximum of Dampney 160 Thinner per gallon of coating
3. DO NOT use any other solvents to thin 2600 series coatings. Incompatibility may result and too rapid solvent evaporation can cause dry spray and poor film characteristics
4. Use Dampney 160 thinner cautiously. Addition of a small amount of thinner will cause a great reduction in coating viscosity. Excessive thinning will cause runs or sags
5. For conventional spray use adequate air pressure and volume to obtain proper atomization

APPLICATION GUIDELINES

Thinning– Only thin Thurmalox 2600 Series Coatings with Dampney 160 thinner. Do not thin beyond federal, state and/or local VOC(Volatile Organic Compound) emission regulations. Note: use of other thinners not approved by Dampney may hinder product performance and void product warranty.

Clean Up– Thoroughly flush spray equipment and hose immediately after use with Dampney 100 thinner. Dismantle spray equipment and clean parts, brushes and roller with Dampney 100 thinner

Storage– store in a cool dry place with temperatures between 10ºC and 38ºC. keep container closed when not in use.

Cure time at 21ºC, 50% RH

Thurmalox 2600 series coatings will air dry tack and thumb print free within 6-8 hours. Allow 12-16 hours dry time between coats. Allow 48 hours dry time prior to shipping and handling if coating is not heat cured. Surfaces coated with Thurmalox 2600 series can be handled and shipped prior to a heat cure as long as shipping and handling procedures for thin filmed systems are followed. Higher temperatures will reduce tack free, recoat and shipping times. Allow one hour solvent flash off period before heat curing or placing into service. Optimum film properties require a heat cure of 177ºC fir 30 minutes. Equipment protected with the Thurmalox 2600 series coatings in the air dried state will heat cure when placed into service

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TECHNICAL DATA

Characteristics	Thurmalox 2600 series
Generic Type	Silicone
Colour	Off-white, light grey
Temperature Resistance	Continuous – 316ºC
Percent Solids by Volume	56%
Dry Film Thickness / Coat	100-125 Microns
Wet Film Thickness / Coat	175-225 Microns
Theoretical Coverage	21.5m²/lt at 25 microns
Application Temp. @50% RH	10ºC -50ºC
Cure Time 10ºC @ 50% RH	To Touch – 10-12 Hours To Recoat – 24 Hours To Ship – 72 Hours
Cure Time 21ºC @ 50% RH	To Touch – 6-8 hours To Recoat – 12-16 Hours To Ship – 48 Hours
Full Cure @ 177ºC	30 minutes
Thurmalox 2600 Series Dampney 160 Thinners	5.21 kg 3.6 kg
Flash Point	57ºC
Shelf Life	1 Year
Volatile Organic Compounds	420 g/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.***