



30-80/ 81 Vapor-safe coating

Colour

30-80 White
30-81 Grey

Application Consistency

Brush, airless spray.

Average Weight/ U.S. Gallon (ASTM D 1475)

11.5 pounds (1.42 kg/l)

Average Non-Volatile (ASTM D 1644)

58% by volume (70% by weight)

Coverage (FSTM 71)

(Subject to the surface being coated). Wet coverages shown below are for smooth non-porous surfaces. Porous or rough surfaces will require higher volume to attain required dry thickness. 4 gallons per 100 square feet (1.6 l/m²) .064 in. wet thickness (1.6 mm).

Drying Time 73°F (23°C) 50% RH (ASTM D 1640)

To Touch : 4 hours

Through : 24 hours

Service Temperature Limits (FSTM 70)

(Temperature at coated surface).
Minus 20°F to 180°F (-29°C to 82°C).

Water Vapour Permeance

ASTM E 96 Procedure B, 0.013 perms (0.009 metric perms) at 43 mils dry ASTM F 1249, 0.08 perms (0.05 metrat 37 ils dry (0.94 mm). Tested at 100°F (38°C) and 90% RH.

Wet Flammability (ASTM D 3278)

Flash Point: None to boiling, 212°F (100°C).

Surface Burning Characteristics (ASTM E 84)

Flame Spread : 5

Smoke Developed : 25

Tested at coverage rate of 25 sq. ft./gal.(0.61 m²/l).

Applied to ¼ inch (6.4 mm) inorganic reinforced cement board. The flame spread may vary at different product thicknesses and/or when applied over other surfaces.

BS 476 Parts 6+7

Class "O"

Vapor Safe Coating meets NFPA 90A and 90B 25/50 requirements.

Foster Vapor-Safe Coating is a water-base, fire-resistant, flexible, high solids vapour barrier finish for most types of thermal insulation, including polystyrene foam. It may be used over dry concrete, finishing cement, and most metals.

Vapor-Safe Coating has the water resistance and low water vapour permeance normally found in only solvent based products. It can be used in high humidity environments, and greatly retards water vapour permeation. It is non-flammable in the wet state.

Vapor-Safe Coating is formulated for both indoor and light duty commercial outdoor use. It has a mild latex "paint type" odour, and is designed for use on pipes, vessels, ducts, and equipment operating below ambient temperatures.

Vapor-Safe Coating FSK jackets and board facings at joints, laps and over staple and weld pin punctures. It is an excellent duct board closure sealant. Do not exceed 1/8" (3.2 mm) wet film thickness.

Vapor-Safe Coating meets the requirements of Military Specification MIL-C-19565C, Type II.

Vapor-Safe Coating contains no asbestos, lead, mercury, or mercury compounds and conforms with current requirements regarding use in meat and poultry processing areas under federal inspection. Letter of certification is available upon request.

Limitations

Store and apply between 40°F (4°C) and 100°F (38°C), protect from freezing until dry.

To resist rain wash off, allow at least 8-12 hours drying time above 50°F (10°C), with a relative humidity of 50%. Higher humidity and/or lower temperature may retard drying.

Always select Vapor-Safe Coating in the white colour for use over polystyrene on outdoor installations.

Always test foil and paper facings for acceptable adhesion before using.

Outdoor horizontal surfaces must always drain completely.

A pitch of at least ¼" per foot (2cm/m) is required.

After long term outdoor exposure 30-80 may weather to an off-white colour.

For heavy duty/ industrial outdoor applications select

® Registered Trademark

FSTM: Foster Standard Test Method



FOSTER VAPOR-SAFE® COATING 30-80 / 30-81

Material Preparation

Stir well, DO NOT THIN. Apply only to clean dry, oil free surfaces. Keep container closed when not in use.

Application

Indoor and Light Duty Outdoor

To prevent water vapour and moisture infiltration, proper and complete flashing is required. Follow flashing specifications.

1. Apply tack coat of Foster Vapor-Safe Coating (colour as selected) at 2 gallons per 100 square feet (0.8 l/m²).
2. Embed Foster MAST-A-FAB white membrane into the wet tack coat. Smooth membrane to avoid wrinkles and overlap all seams at least two inches (5 cm). Apply finish coat of Vapor-Safe Coating, within ½ hour of the tack coat application, at 2 gallons per 100 square feet (0.8 l/m²).
3. This application shall provide a minimum dry film thickness of 37 mils (0.9 mm).

Moisture Barrier Sealer

1. Where required at all fittings and at specified intervals of straight-run pipe insulation, apply Foster Vapor-Safe Coating at 1/16 inch (1.6 mm) thick to all butt joints of pipe insulation and onto the bore of the insulation for a minimum of two inches from the joint.
2. Position insulation, press firmly into place making certain that a complete unbroken seal is obtained.

Brush

Use a good brush (suitable for water based paints), making strokes as long as possible over the surface. Apply with full brush and spread out evenly. Do not overwork.

Spray

Vapor-Safe Coating may be airless spray applied. For spray equipment information, please consult Airless Spray Recommendations or contact your Spray Equipment Supplier. Average Viscosity Range: 60,000-90,000 cps. Corrosion resistant pumps and fittings are suggested.

Clean Up

Use fresh water to clean brushes and equipment before product dries. Dry product may be removed with hot soapy water (with ammonia added) or strong solvents such as chlorinated solvent (non-flammable) or xylol (flammable).

Data Reported From ASTM E 84 Fire Test (Tunnel Test) - Coating, General Purpose H.B. Fuller Company

Surface Burning Characteristics

| | |
|----------------------------------|---|
| Surface | ¼ inch (6.4 mm) Inorganic Reinforced Cement Board |
| Flame Spread | 5 |
| Smoke Developed | 25 |
| Number of Coats | 2 |
| Rate per Coat (sq. ft. per gal.) | 50 |

For industrial use only.

This data sheet is based on specifications, data and test results available to us at the time of publication.

In the course of time changes herein may (have) take(n) place. No guarantee as to completeness, accuracy or results is either expressed or implied. The suitability to an intended use is the responsibility of the user. As material-choice, method of application and site conditions are beyond our control, we accept no liability for direct or consequential damages; our only obligation being to resupply ex our stores any material that is proved to be defective within the published* shelf life.

* If not applicable, within 6 months from date of supply.