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Data Sheet

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EXPERT™ Mastics

- KI-700 ASJ Weather Barrier Mastic
- KI-705 ASJ+ Weather Barrier Mastic
- KI-900 ASJ Vapor Retarder Coating
- KI-905 ASJ+ Vapor Retarder Coating

EXPERT™ Mastics

EXPERT Weather Barrier Mastic Series

Description

Knauf Insulation mastics are specifically designed for use on commercial and industrial ASJ jacketed insulation products. The Weather Barrier Mastics are heavy-bodied, water-based, vinyl acrylic, general-purpose mastics. They can be used over all types of insulation systems, both interior and exterior. It can also be applied over masonry surfaces and a variety of other substrates. When dry, it provides a tough, durable, flexible film which affords excellent protection from the elements and mechanical abuse over a wide range of ambient temperatures.

Finishes

- ASJ
- ASJ+

Features

- Smooth consistency which is easy to apply by brush or trowel.
- The KI-700 ASJ is compatible with typical faced thermal insulations used on commercial and industrial projects.
- The KI-705 ASJ+ is compatible with typical faced thermal insulations used on commercial and industrial projects and especially formulated for ASJ+ facings.
- Water based with quick drying time.
- White color.
- Made in the USA

Benefits

- Excellent bond to ASJ+, ASJ and FSK insulation facings.
- Excellent initial tack and long-term adhesion.
- Asbestos free.
- Does not contain lead or mercury compounds.
- Meets 25/50 flame and smoke requirements.

Technical Data

Drying Time (ASTM D 1640)

- (Depending upon temperature, relative humidity, and substrate)
 - To touch: 2 to 4 hours
 - Completely cured: 12 to 48 hours

Coverage (ASTM C 461)

- 13 sq ft/gal @ 1/16" dry (63 mils) (.32 m²/liter @ 1.6 mm)
- 20 sq ft/gal @ 40 mils dry thickness (.5 m²/liter @ 1.0 mm)

Application Temperature Range

- 40°F to 120°F (4°C to 49°C)

Wet Flammability (ASTM D 93)

- No flash to boiling, 212°F (100°C)

Service Temperature Range

- 0°F to 180°F constant (-17.8°C to 82.2°C)
- -20°F to 200°F intermittent (-29°C to 93°C)

Packaging

- Available in 1 gallon, 2 gallon and 5 gallon containers.

Weight Per U.S. Gallon (ASTM D 1475)

- 10.1 pounds (1.21 kg/liter)

Solids

- 58% by weight; 50% by volume

Elongation

- 1,500% (50 mils dry @ 70°F);

Recommended Shelf Life

- 18 months in unopened container at 40°F (4°C) to 90°F (32°C)

(Note: If stored correctly, product often remains stable much longer than this.)

Caution

The addition of water to this product will change its physical properties and will adversely affect its performance. No expressed or implied warranty will be offered on applications where the product has been thinned or altered in any way. Protect from freezing and from precipitation or condensation until it is completely cured.

EXPERT Vapor Retarder Coating Series

Descriptions

Knauf Insulation mastics are specifically designed for jacketing systems for use with Earthwool Pipe Insulation as well as commercial and industrial jacketing faced products. These are effective vapor-retarder coatings for use over all types of thermal insulation. It is most suited for insulated systems which are operating below ambient temperature but not below 32° F, such as chilled water lines, air conditioning ducts, or other pipes or vessels within these temperature parameters

Finishes

- ASJ
- ASJ+

Features

- Formulated to have a smooth consistency which is easy to apply by brush.
- Water based with quick dry time.
- White color.
- The ASJ finish is compatible with most normal types of thermal insulation used on commercial and industrial projects containing normal facings such as ASJ & FSK.

The ASJ+ finish is compatible with most normal types of thermal insulation used on commercial and industrial projects containing ASJ, ASJ+ & FSK facings.

Benefits

- Excellent bond to ASJ / ASJ+ insulation facing.
- Excellent initial tack and long-term adhesion
- Made in the USA.
- Asbestos free while not containing lead or mercury compounds.
- Meets 25/50 flame and smoke requirements.

Technical Data

Water Vapor Permeance (ASTM F 1249)

- Less than .08 U.S. Perms at 32 mils dry film- (.05 Metric Perms); 100°F, 100% RH

Drying Time (ASTM D 1640)

- (Depending upon temperature, relative humidity, and substrate)
 - To touch: 2 to 4 hours;
 - Completely through: 12 to 48 hours

Coverage (ASTM C 461)

- 25 sq ft/gal at recommended minimum thickness of 1/16" wet which yields a dry film thickness of 32 mils.

Application Temperature Range

- 40°F to 120°F (4°C to 49°C) KI- 900 & 905 will lose some flexibility at very cold temperatures and will soften at very warm temperatures.

Wet Flammability (ASTM D 93)

- No flash to boiling, 212°F (100°C)

Service Temperature Range

- -20°F to 180°F (-29°C to 82.2°C)

Packaging

- Available in 1 gallon, 2 gallon and 5 gallon containers.

Weight Per U.S. Gallon (ASTM D 1475)

- 10.7 pounds (1.28 kg/liter)

Solids

- 62% by weight; 52% by volume

Volatile Organic Compound Content (VOC) - (ASTM D 3960)

- (.01 lb/gal (1.29 g/l)

Elongation

- 90% (30 mils dry @ 70°F); (.76 mm dry @ 21°C)

Recommended Shelf Life

- 12 months in unopened container at 40°F (4°C) to 90°F (32°C)

(Note: If stored correctly, product often remains stable much longer than this.)

Caution

The addition of water to this product will change its physical properties and will adversely affect its performance. No expressed or implied warranty will be offered on applications where the product has been thinned or altered in any way. Protect from freezing and from precipitation or condensation until it is completely cured.