

RUBBER ADHESIVE

R-374 Protective Coating

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DESCRIPTION

R-374 Protective Coating is a water-based acrylic resin coating which has been specially formulated for application to elastomeric insulation surfaces. R-374 can also be applied to polyolefin insulation surfaces in low traffic areas. This white coating provides a fast-drying, high gloss protective finish for

both indoor and outdoor installations. R-374 Protective Coating is a flexible coating which offers excellent resistance to the harmful effects from the ultraviolet rays of the sun. It is supplied in gallon containers, 4 containers to a case.

APPLICATIONS

R-374 Protective Coating can be applied with brush, roller, or spray. For best appearance, two coats are recommended. It should be stirred thoroughly and applied to a clean, dry surface which is free of dirt, oil, or other contaminants. If the surface needs cleaning, use a fast-drying non-residue cleaner such as denatured alcohol. The coating should be applied above 50°F and allowed to dry for 4 hours between coats, or the adhesion may be adversely affected. See *Technical Bulletin TA1 for equipment recommendations.*

Do not add water to the product; thinning with water will adversely affect the coating. Use warm soapy water for clean up.

INDOOR APPLICATION

R-374 Protective Coating offers a tough, cleanable surface for indoor applications. The decorative coating can be tinted with common pigment pastes used for tinting latex paint. (Pigments should be added at the rate of less than 4.3 oz./gal.). The coating is free of any solvent odors.

OUTDOOR APPLICATIONS

R-374 Protective Coating offers protection from the harmful effects of UV rays when applied to insulation outdoors. It should not be confused as a waterproof mastic, and should not be used in areas where water ponding could occur.

Caution: Use with ventilation; do not take internally. If swallowed, do not induce vomiting-call physician immediately. Avoid contact with eyes. In case of eye contact, flush with large amounts of water and call physician. Close container after use. Keep out of reach of children.

Physical Properties

Color	White
Weight per gallon	9.6 lbs. per gallon
Base	Acrylic latex
Solids Content	50% by weight
Viscosity	Medium Syrup
Application	Brush, Roller or Spray
Coverage	250 square feet per gallon
Shelf Life	1 year in original sealed container Storage temperature 60°F to 80°F (16°C to 27°C) Keep from freezing
Drying Time	4 Hours
Container Size	One-Gallon Cans
Flammability	Non-Flammable Water-Based
Freight Classification	Protective Coating Paint, non-flammable, Class 55

R-373 Contact Adhesive

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not in use should be kept closed. Keep adhesive away from sparks and open flames. Use with adequate ventilation and avoid excessive contact with the skin.

USES

R-373 Contact Adhesive may be used for bonding elastomeric products to a variety of materials (i.e., other elastomers, metal, plastics, wood, etc.) The adhesive will make a resilient and heat-resistant bond. It is suitable for line temperatures up to 220°F (104°C) on applications requiring bonded seams and joints. When the adhesive is applied to large flat or curved surfaces, it is suitable for temperatures up to 200°F (93°C). The product is supplied in a variety of sizes ranging from 1/2 pint brush top containers to gallon containers. Larger containers are available upon request.

APPLICATION INSTRUCTIONS

For proper adhesion, the surfaces to which the insulation is to be applied must be thoroughly clean, dry and unheated. Primed and painted surfaces should be adhesive tested to be sure the insulation will not lift off after application. The adhesive should be thoroughly mixed. Brush, roll, or spray a thin even coat of adhesive on both surfaces to be joined. Allow the adhesive films to become dry to the touch, but tacky, before joining the surfaces. Press the two surfaces together. Be sure the insula-

tion is in the desired position before the adhesive surfaces make initial contact, since the adhesive forms an instant bond and repositioning after contact is difficult. Moderate pressure should then be applied to the entire bonding area to insure complete contact. Avoid heat, sparks, and open flames and use only with proper ventilation. Close container after use. R-373 Contact Adhesive should be applied at above 40°F (4°C) temperatures, and allowed to dry for 24 hours before equipment operation. Protective coatings can be applied to applications with bonded joints and seams, after allowing 24 hours dry time. Applications such as large tanks, or vessels where full adhesive coverage is required, must be allowed to dry 7 days prior to applying a protective coating.

R-373 Contact Adhesive may be heat or solvent reactivated. To heat reactivate, use approximately 250°F (125°C). To solvent reactivate, wipe with a cloth dampened with toluene.

Note: May damage the insulation if the intent is to remove it from the substrate (i.e. duct, tank, AHU, etc.)

Thinning the adhesive is not recommended. Common lacquer thinners can be used for clean up. See the *Technical Bulletin TA1* for equipment recommendations. v

DESCRIPTION

R-373 Contact Adhesive is an air-drying solvent based neoprene contact adhesive (blue in color for easy identification) that is excellent for joining seams and butt joints of elastomeric pipe and sheet insulation. R-373 Contact Adhesive will make a resilient moisture and heat-resistant bond when used with elastomeric products. It is designed for spray application, giving excellent coverage with rapid build-up of strength. Conventional spray heads for solvent based adhesives work with this product.

Caution: Adhesive contains notable solvents and containers

Physical Properties

Color	Blue
Base	Synthetic Rubber
Solvents	Aliphatic, Aromatic and Ketone
Viscosity	Thin Syrup
Solid Content	20% by Weight
Weight per gallon	6.8 lbs./gallon
Coverage	200-300 sq. ft. per gallon (one surface)
Shelf Life	One year in original sealed container - Storage temperature 60°F.
Minimum Dry Time	5-10 minutes under normal conditions, shorter for spray application (Drying can be accelerated by using forced ventilation and/or heat.)
Open Time	Not to exceed 10 minutes
Temperature Limits	220°F (104°C) for pipe insulation seams and joints 200°F (93°C) for full bonding sheets
Flash Point	Less than -4°F
Specification Compliance	Meets Mil A 24179A Type 2 Class 1 Amendment 2(QPL# RUBQA-373)
Flammability	Underwriter Laboratories listed UL 723 (Flame Spread 5) (Smoke Density 5)
Freight Classification	Adhesive NOS. Flammable Liquid 4620 Sub 5, Class 60, UN 1133, IMDG class 3.1, PG:11 (packaging group II)



R-320 Contact Adhesives – Amber

R-620 Contact Adhesives – Black

Made in America



Caution: Adhesive contains notable solvents and container not in use should be kept closed. Keep adhesive away from sparks and open flames. Use with adequate ventilation and avoid excessive contact with the skin.

USES

R-320 & R-620 Contact Adhesives may be used for bonding elastomeric and polyolefin products to a variety of materials (i.e., other elastomers, metal, wood, leather, felt, concrete, etc.). The adhesives will make resilient and heat-resistant bonds. They are suitable for line temperatures up to 220°F (104°C) on applications requiring bonded seams and joints. When the adhesives are applied to large flat or curve surfaces, they are suitable for temperatures up to 200°F (93°C). The products are supplied in a variety of sizes ranging from pint brush top containers to gallon containers. Larger containers are available upon request.

APPLICATION INSTRUCTIONS

For proper adhesion, the surfaces to which the insulation is to be applied must be thoroughly cleaned, dry, and unheated. Primed and painted surfaces should be adhesive tested to be sure the insulation will not lift off after application. The adhesive should be thoroughly mixed. Brush or roll a thin even coat of adhesive on both surfaces to be joined.

Allow the adhesive films to become dry to the touch, but tacky, before joining the surfaces. Press the two surfaces together. Be sure the insulation is in the desired position before the adhesive surfaces make initial contact, since the adhesive forms an instant bond, and repositioning after contact is difficult. Moderate pressure should then be applied to the entire bonding area to insure complete contact. Avoid heat, sparks, and open flames, and use only proper ventilation. Close container after use. R-320 & R-620 Contact Adhesives should be applied at above 40°F (4°C) temperatures, and allowed to dry for 24 hours before equipment operation. Protective coatings can be applied to applications with bonded joints and seams, after allowing 24 hours dry time. Applications such as large tanks, or vessels where full adhesive coverage is required, must be allowed to dry 7 days prior to applying a protective coating.

The surface may be allowed to dry and solvent reactivated by wiping with a toluene dampened cloth.

Thinning the adhesive is not recommended. Common lacquer thinners can be used for clean up.

DESCRIPTION

R-320 & R-620 Contact Adhesives are air-drying solvent based neoprene contact adhesives that are excellent for joining seams and butt joints of elastomeric & polyolefin pipe and sheet Insulation. R-320 & R-620 Contact Adhesives make resilient moisture- and heat-resistant bonds when used with elastomeric and polyolefin products. R-320 & R-620 Contact Adhesives' higher solids content allows them to be brushed or roller applied easily without running. They are ideal for bonding porous and non-porous materials, as they will not be absorbed easily.

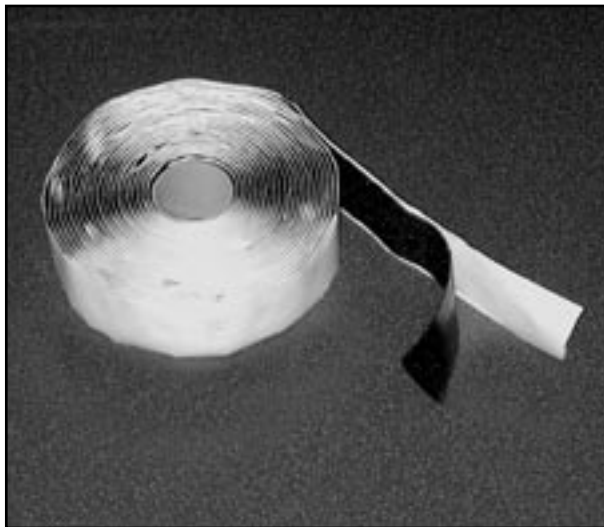
Physical Properties

Color	Amber (R-320), Black (R-620)
Base	Neoprene
Solvents	Toluene, Hexane, Acetone
Viscosity	Medium Syrup
Solid Content	25% ± 2%
Weight per gallon	6.98± .2 lbs.
Coverage	200 sq. ft. per gallon (one surface)
Shelf Life	One year in original sealed container. • Storage temperature 60°F
Minimum Dry Time	2-4 minutes under normal conditions
Open Time	Not to exceed 10 minutes
Temperature Limits	220°F (104°C) for pipe insulation seams and joints 200°F (93°C) for full bonding sheets
Flash Point	Less than -4°F
Freight Classifications	Adhesives NOS. Flammable Liquid 4620 Sub 5, class 60, Un 1133, IMDG class 3.1 , PG:11 (packaging group II)



Q-201 Cork Insulation Tape

Made in
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PURPOSE

This product was formulated to provide insulation and to prevent condensation on pipes, fittings and tubing used in heating, air conditioning, refrigeration and plumbing. It can also be used on hot pipes.

COMPOSITION

This product adheres well to most clean, dry surfaces and to itself, making it possible to apply more than one layer without adding fasteners or adhesives. It is sufficiently soft and pliable to be molded around most fittings and connections and retains its flexibility and adhesion over a surface temperature range of -20°F to 190°F (-29°C to 88°C). It is black in color and has a grainy rubber-like consistency. It has a very slight odor.

Typical Test Data

Color	ASTM D1720-69	Black
Solids Content	ASTM C771-74	99.8%
Thermal Conductivity (K-Factor)	ASTM C177-76	1.26 BTU/(sq.ft.)(hr.)(°F/in.)
Moisture Vapor Transmission	ASTM E90, Procedure C	0.021 perms
Water Absorption	ASTM 1056	0.02%
Ozone Resistance		Excellent
High Temperature Limit		190°F (88°C)
Elongation	Q'SO test method	50% min.
Direct Tension Adhesion	Q'SO test method	6.2 N/cm ² (9.0 lbs./in. ²) min.
Peel off Force	Q'SO test method	30 N (6.75 lbs.) min.
Specific Gravity	ASTM D71-72	0.75± 0.05



Elastomeric Foam Tape

Made in America



DESCRIPTION

Elastomeric Foam Tape is a convenient and easy-to-use product which complements the Nomaco K-Flex family of tubing and sheet insulation products. It is a specially designed flexible, elastomeric insulation product.

It is manufactured in 1/8" thickness by 2" width by 30' length, with pressure sensitive adhesive for applying to hot or cold pipes and fittings. The factory-applied pressure-sensitive acrylic adhesive adheres firmly and forms a long-lasting bond, while the closed-cell structure of the product provides good thermal and low moisture permeability properties.

USES

Elastomeric Foam Tape is used to retard heat gain and prevent condensation or frost formation on cold water plumbing, chilled water, and refrigeration lines. It also reduces heat flow for hot water plumbing, liquid heating, and dual temperature piping. Elastomeric Foam Tape is ideal for insulating short runs of pipes or valves and fittings where it is impractical to install tubing insulation. The tape can be applied in multiple wraps (thickness) to meet various service conditions.

APPLICATION INSTRUCTIONS

Elastomeric Foam Tape may be applied to all diameter pipes and tubes by spiral winding. Remove the release paper as the tape is spiral-wrapped around the pipe. Avoid stretching. Edges may be butted or overlapped. The seams are sealed with slight hand pressure. Surfaces to which Elastomeric Foam Tape is to be applied must be dry and clean. For best results, apply at temperature above 40°F (4°C) and not on heated surfaces.

SPECIFICATIONS

Elastomeric Foam Tape is manufactured from Nomaco K-Flex sheet and meets the same physical property specifications. Elastomeric Foam Tape is UL 94 V0 listed when attached to a metal plate.

Physical Properties

Skin Surface	Smooth, black surface for excellent appearance
Composition	Flexible, closed-cell elastomeric insulation
Color	Black
Dimensions	1/8" (3 mm) x 2" (50 mm) x 30' (9.1 m) roll • 12 rolls per master carton
Density	4-8 lb/cu. ft.
Thermal Conductivity	.28 at 75°F, tested according to ASTM C-177
Water Absorption	0.10 lbs./cut surface area, ASTM 1667
Water Vapor Permeability	0.10 perms-in (dry cup) ASTM E96
Temperature Limits	20°F (-7°C) to 180°F (82°C)
Freight Classification	Tape, insulation, NOIBN. No label required

Thickness Recommendations - To Control Condensation

Air Temperature and Relative Humidity	Pipe Temp	
	50°F (10°C)	32°F (0°C)
77°F (25°C)/50% RH	Single Layer	2 Layers
85°F (29°C)/70% RH	3 Layers	4 Layers



Polyethylene Foam Tape

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DESCRIPTION

Polyethylene Foam Tape is a high density cross-linked polyethylene foam tape coated on one side with a high performance pressure sensitive adhesive. The adhesive system exhibits excellent consistent quick stick sealing with excellent high shear properties. This product also exhibits good resistance to humidity, mild acids, oil and grease. The foam has superior conformability and compressibility which allows it to adhere well to textured and irregular surfaces, and can be easily be die cut. Polyethylene Foam Tape is manufactured in 1/8" thickness by 2" wide by 54' length and is available in white or black.

USES

Polyethylene Foam Tape is used to retard heat gain and prevent condensation or frost formation on cold water plumbing, chilled water, and refrigeration lines. It also reduces heat flow for hot water plumbing, liquid heating, and dual temperature piping. Polyethylene Foam Tape is ideal to use in applications where it is impractical to install standard pipe or sheet insulation such as small valves, valve stems and fittings. The tape can be applied in multiple wraps (to final thickness) to meet various service conditions.

APPLICATION INSTRUCTIONS

Polyethylene Foam Tape may be applied to small diameter pipes and tubes by spiral winding. Remove the release paper as the tape is spiral-wrapped around the pipe. Avoid stretching. Edges may be butted or overlapped. The seams are sealed with slight hand pressure. Surfaces to which Polyethylene Foam Tape is to be applied, must be dry and clean. For best results, apply at temperature above 40° (4°C) and not on heated surfaces.

Physical Properties

Foam Thickness (Irradiated Cellular polyethylene)	1/8"	3/2 mm
Density	6 PCF	100 kg/m ²
Adhesive Thickness	2.5 mils	0.114 mm
Adhesion - Peel	100 oz/inch width	28.3 N/2.5 cm
Shear: 76+ hours@	2 psi	13.8 kPa
Tensile	6 lbs./inch width	27.2 N/2.5 cm
Elongation	300%	300%
Low Temperature (application)	40°F	4°C
High Temperature (resistance)	180°F	82°C
Release Liner	74 lb. moisture stable polycoated kraft	120 GSM moisture stable polycoated kraft
Colors	White & Black	
Freight Classification	Tape, insulation, NOIBN. No label required	



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