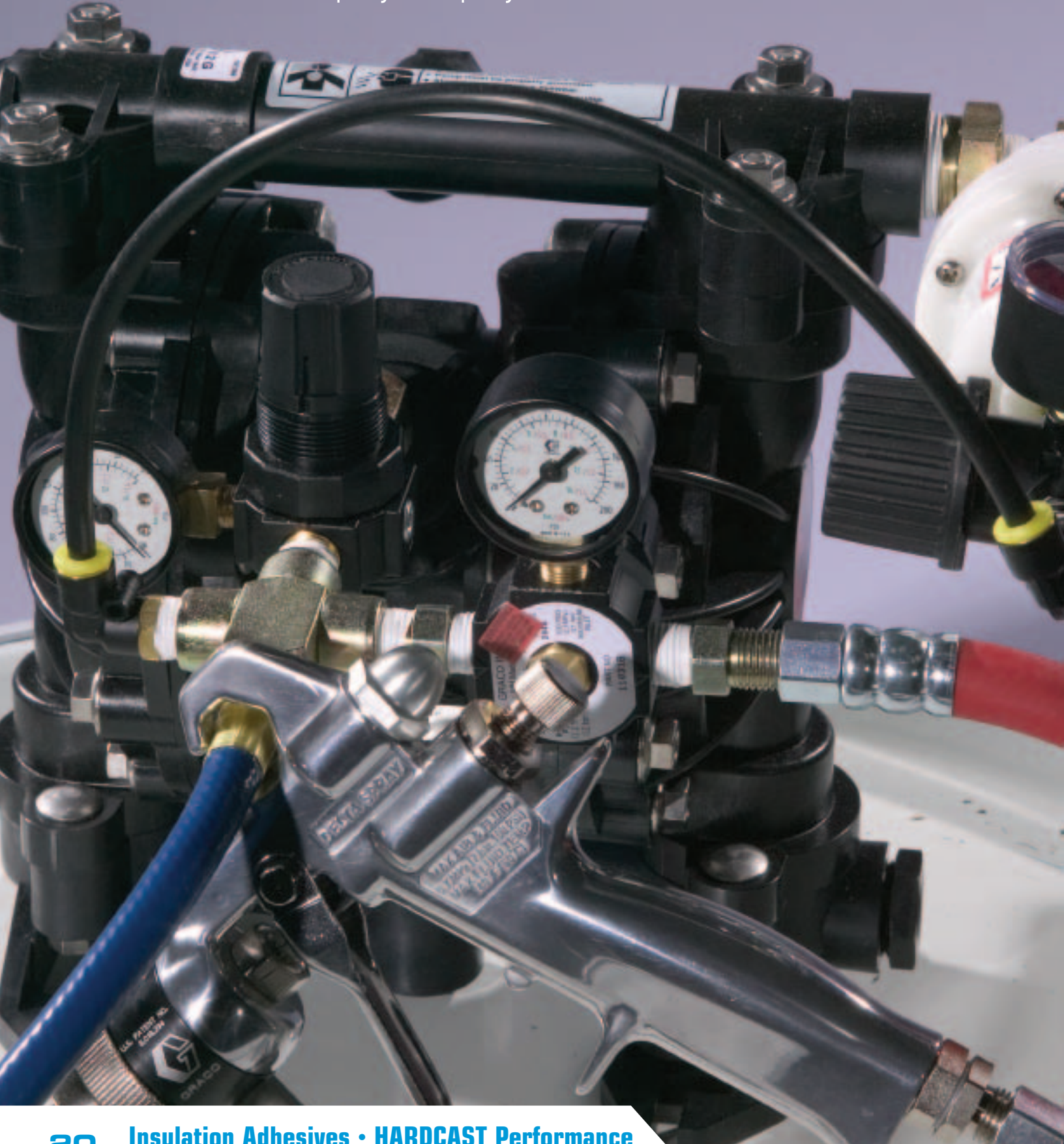




ADHESIVE DELIVERY

Hardcast Spray Pump System



ERY SYSTEM

Designed for both solvent and water based insulation adhesive, Hardcast's Adhesive Delivery System comes pre-set and pre-assembled to deliver the right amount of adhesive. The system includes a fully assembled pump, spray gun, regulators and two-25 ft. hoses. This pump system also includes a multi-tip spray kit that comes complete and ready to use for the entire Hardcast liquid adhesive line.

ADHESIVE DELIVERY SYSTEM PART NUMBER

Adhesive System307197
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Hardcast Adhesive Spray Systems

Hardcast Air Spray Gun/Nozzles

The GLAS-GRIP™ 658 and 758-ES systems' spray gun and nozzle combinations are available separately. GLAS-GRIP offers two types of nozzles; the 6501, designed for GG-658; and the 9501, designed for GG-758-ES.

304300 - Spray Gun (with applicable spray tip)

304301 - Spray Tip (for GLAS-GRIP 758)

Hardcast Spray System Hoses

Hardcast hoses are designed for GLAS-GRIP 658 and 758 applications. These hoses include nylon tubing, internal braided reinforcement and an excellent weather and abrasion resistant polyurethane outer covering.

304302 - 6 foot hose

304303 - 12 foot hose

304304 - 18 foot hose



Hardcast GLAS-GRIP 900 Series Spray System

Built for the GLAS-GRIP 900 series adhesives, the system comes pre-set and pre-assembled. The system includes fully assembled pump, hoses, spray gun and regulators. The pump is preset to the proper air pressure, dispensing 16-30 ounces per minute, and comes with a 12 month manufacturer warranty from GRACO. Contact your local Hardcast representative for more details.

304277 - .042 Orifice (for use with GLAS-GRIP 901, 921, 925, 951, 636 & 637)

304276 - .055 Orifice (for use with GLAS-GRIP 981)



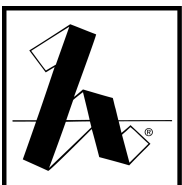
Hardcast Adhesive Spray System shown fully assembled with a 50 gallon drum of GLAS-GRIP 981.



Carlisle Coatings & Waterproofing
Incorporated
900 Hensley Lane
Wylie, Texas 75098

Phone: (800) 527-7092 FAX: (972) 442-0076

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Hardcast's GLAS-GRIP™

Adhesive Spray Systems

GLAS-GRIP Self-Contained Adhesive

Aerosol Spray Gun/Nozzles

Hardcast GLAS-GRIP™ 658 and 758-ES portable, self contained adhesive spray systems provide fast setting solutions for adhering fiberglass duct liner to sheet metal. The GLAS-GRIP systems accept your choice of the Hardcast adjustable spray gun or the classic spray gun, with interchangeable tips.

- 307490** Adjustable Spray Gun (658 or 758-ES)
- 304300** Classic Spray Gun (with 658 spray tip [6501])
- 304301** 758-ES Spray Tip (for 758-ES [9501])

Spray System Hoses

Hardcast hoses are designed for GLAS-GRIP 658 and 758-ES applications. These hoses include nylon tubing, internal braided reinforcement and an excellent weather and abrasion resistant polyurethane outer covering.

- 304302** 6 foot hose
- 304303** 12 foot hose
- 304304** 18 foot hose



Hardcast GLAS-GRIP 658 Adhesive Spray System (16 oz. can & 40 lb. cylinder shown)

GLAS-GRIP Duct Liner Adhesive Delivery System

Built for GLAS-GRIP water and solvent based adhesives, this spray system comes pre-set and pre-assembled to deliver the right amount of adhesive. The system includes fully assembled pump, spray gun, regulators and two-25 ft. hoses. It's preset to the proper air pressure. This multi-tip spray kit comes complete and ready to use, for the entire GLAS-GRIP liquid adhesive line, both water and solvent based. Contact your local Hardcast representative for more details.

- 307197** Duct Liner Adhesive Delivery System (All spray tips included)



Hardcast Adhesive Spray System shown fully assembled with a 50 gallon drum of GLAS-GRIP 981.



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FLEX-GRIP™ 550

FG-550

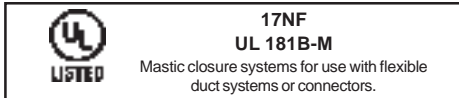
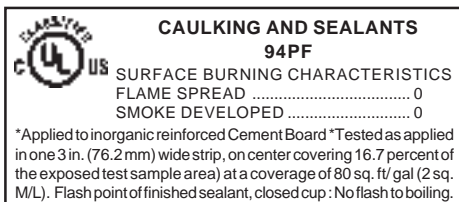
Indoor/Outdoor Water Based Duct Sealant

FLEX-GRIP 550 is an **all purpose, fiber-free, duct sealant** for use on all types of metal duct, glass fiber duct board, and flex duct, as well as duct fabric and flexible tubing runouts. Distinguished by its ability to accommodate minor vibration and movement, FLEX-GRIP 550 **stays flexible to save call-back labor**. FLEX-GRIP's **excellent coverage** rates and **easy spray and brush-on application** provide **low installed cost** while providing Hardcast's **proven reliability**.

TECHNICAL DATA

Color	Gray
Consistency	Heavy Brush On/Spray Grade
Base	Synthetic latex
Solvent	Water
Weight per Gallon	10.7 lbs.
Solids Content	63%
Viscosity	>300K cps
Coverage (per gal.)	Up to 320 lin. ft. at 3" width, 20 mil thickness
Shore A Hardness	>20
Flexibility	Passes 1/4 in. mandrel bend
Time to Test	48 hours*
Service Temperature	-20°F to 200°F
Water Resistance	Excellent
Mildew Resistance	Mold & Mildew resistant
VOC	75 g/l (less water)
Pressure Classes	SMACNA 1/2, 1, 2, 3, 4, 6 and 10 inches w.g.
Seal Classes	SMACNA A, B, C
Packaging	11 .oz cartridges, 1 gal., 5 gal. & 50 gal.
Freeze/Thaw Stability	Passed 5 Cycles
Specifications Compliance ...	Passes ASTM C-731, ASTM D-2202. USDA, EPA and FDA Approved

*May vary according to temperature and humidity



City of Los Angeles Approval RR#8069

FLEX-GRIP 550 PART NUMBERS

1 Case w/ (25) 11 oz. Cartridges	304134
1 Case w/ (4) 1-Gallon Pails	304132
1 - 5-Gallon Pail	304133
1 - 50-Gallon Drum	305437

APPLICATION

Apply to entire surface of duct joint

Temperature	35°F. to 110°F
Method	Brush, putty knife, caulk gun, trowel or spray. For spray, use Hardcast Sealant Delivery System w/ 50 gallon drum.
Preparation	Surface must be dry, dirt, oil, and grease free.
Rate	Apply at joints and fasteners 20 mil thick wet film
Clean Up Wet	Soap and water
Clean Up Dry	UNN-GRIP™ 798-ES or Solvent (Use safe handling practices.)
Painting	Only latex or epoxy paints

STORAGE

DONOT FREEZE

Temperature	35°F to 110°F
Shelf Life	One year (unopened)
Flammability	Non-flammable

PRECAUTIONS

Surface must be clean and free of moisture, contamination and foreign matter. Do not allow this product to freeze. Apply when temperatures will not fall below freezing for at least 36 hours. Do not apply this product in weather exposed areas, or where temperatures will exceed 200°F. Keep out of the reach of children. Review MSDS for complete safety information prior to use. DO NOT use where acidic or alkaline chemicals are present (ie., lab fume hood, vents, etc.)

For Industrial Professional Use Only.

For additional information contact:



Carlisle Coatings & Waterproofing
900 Hensley Lane
Wylie, Texas 75098

Phone: (800) 527-7092 FAX: (972) 442-0076
WWW.HARDCAST.COM

601239



VERSA-GRIP™ 181

VG-181

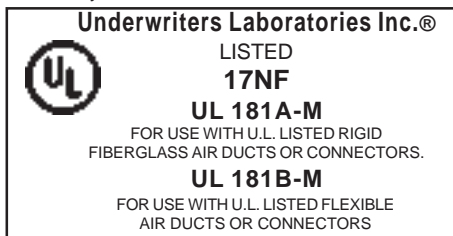
Premium Indoor/Outdoor Water Based Duct Sealant

VERSA-GRIP 181 is a premium grade, versatile, **all purpose duct sealant** for use on all types of metal duct, glass fiber duct board, and flex duct, as well as duct fabric and flexible tubing runouts. VERSA-GRIP incorporates a built-in **fiber reinforcement** for **exceptional strength**, with UV inhibitors for outdoor use. UL 181A-M listed / UL 181B-M listed.

TECHNICAL DATA

Color	White & Gray
Consistency	Heavy textured
Base	Synthetic latex
Solvent	Water
Weight per Gallon	11.6 lbs.
Solids Content	70%
Viscosity	Thixotropic
Coverage (UL 181 A-M)	Apply 18 mil, scrim, addt. 18 mil
(UL 181 B-M)	Approximately 214 to 320 lin. ft. per gal. at 20 to 30 mil wet film thickness at 3" width.
Shore A Hardness	>20
Flexibility	Passes 1/4 inch mandrel bend
Time to Test	48 hours*
Service Temperature	-20°F to 200°F
Mildew Resistance	Mold & Mildew resistant
VOC	45 g/l (less water)
Pressure Classes	SMACNA 1/2, 1, 2, 3, 4, 6 and 10 inches w.g.
Seal Classes	SMACNA A, B, C
Packaging	11 oz. cart.; 1, 2 & 5 gal. pails
Freeze/Thaw Stability	Passed 5 Cycles
Specification Compliance	Passes ASTM C-731, D-2202 USDA, EPA & FDA Approved

*May vary according to temperature and humidity



City of Los Angeles Approval RR#8427

VERSA-GRIP 181 PART NUMBERS

1 Case w/ (25) 11 oz. Cartridges (White)	304141
1 Case w/ (25) 11 oz. Cartridges (Gray)	305056
1 Case w/ (4) 1-Gallon Pails (White)	304138
1 Case w/ (4) 1-Gallon Pails (Gray)	305057
1 - 2-Gallon Pail (White)	304139
1 - 2-Gallon Pail (Gray)	305058
1 - 5-Gallon Pail (White)	304140
1 - 5-Gallon Pail (Gray)	305059

APPLICATION

Apply to entire surface of duct joint

Temperature	35°F to 110°F (1.7°C to 44°C)
Method	Brush, putty knife, caulk gun, pump
Preparation	Surface must be dry, dirt, oil, and grease free.
Rate (UL 181 A-M):	Apply 18 mil, scrim and 18 mil over scrim.
(UL 181 B-M):	Approx. 214 to 320 lin. ft. per gal. at 20 to 30 mil wet film thickness at 3" width.
Clean Up Wet	Soap and water
Clean Up Dry	UNN-GRIP™ 798-ES or Solvent (Use safe handling practices.)
Painting	Only latex or epoxy paints
Ductboard	Scrim required for UL 181A-M
STORAGE - DO NOT FREEZE	
Temperature	35°F to 110°F (1.7°C to 44°C)
Shelf Life	One year (unopened)
Flammability	Non-flammable

PRECAUTIONS

Surface must be clean and free of moisture, contamination and foreign matter. Do not allow this product to freeze. Do not apply when rain or freezing temperatures will occur within 36 hours. Do not apply this product where temperatures will exceed 200°F. Keep out of the reach of children. Review MSDS for complete safety information prior to use. **DO NOT** use where acidic or alkaline chemicals are present (ie., lab fume hood, vents, etc.)

For Industrial Professional Use Only.

For additional information contact:



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Wylie, Texas 75098

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WWW.HARDCAST.COM



IRON-GRIP™ 601

IG-601

Premium Indoor/Outdoor Flexible Water Based Duct Sealant

A versatile, **all purpose, fiber-free, duct sealant** for use on all types of metal duct, glass fiber duct board, and flex duct, as well as duct fabric and flexible tubing runouts. Distinguished by its ability to accommodate minor vibration and movement, IRON-GRIP **stays flexible to save call-back labor**. IRON-GRIP's **excellent coverage** rates and **easy brush-on application** provide **low installed cost** while providing Hardcast's **proven reliability**.

TECHNICAL DATA

Color	Gray
Consistency	Heavy Brush On
Base	Synthetic latex
Solvent	Water
Weight per Gallon	10.7 lbs.
Solids Content	63%
Viscosity	>300K cps
Coverage (per gal.)	Up to 320 lin. ft. at 3" width, 20 mil thickness
Shore A Hardness	>20
Flexibility	Passes 1/4 in. mandrel bend
Time to Test	48 hours*
Service Temperature	-20°F to 200°F
Water Resistance	Excellent
Mildew Resistance	Mold & Mildew resistant
VOC	75 g/l (less water)
Pressure Classes	SMACNA 1/2, 1, 2, 3, 4, 6 and 10 inches w.g.
Seal Classes	SMACNA A, B, C
Packaging	11 oz. cartridges, 1 gal., 5 gal. pails
Freeze/Thaw Stability	Passed 5 cycles
Specifications Compliance ...	Passes ASTM C-731, ASTM D-2202. USDA, EPA and FDA Approved.

*May vary according to temperature and humidity

	CAULKING AND SEALANTS 94PF SURFACE BURNING CHARACTERISTICS FLAME SPREAD 0 SMOKE DEVELOPED 0
<small>*Applied to inorganic reinforced Cement Board *Tested as applied in one 3 in. (76.2 mm) wide strip, on center covering 16.7 percent of the exposed test sample area) at a coverage of 80 sq. ft/ gal (2 sq. M/L). Flash point of finished sealant, closed cup: No flash to boiling.</small>	
	17NF UL 181B-M Mastic closure systems for use with flexible duct systems or connectors.

City of Los Angeles Approval RR#8069

IRON-GRIP 601 PART NUMBERS

1 Case w/ (25) 11 oz. Cartridges	304137
1 Case w/ (4) 1-Gallon Pails	304135
1 - 5-Gallon Pail	304136

APPLICATION

Apply to entire surface of duct joint

Temperature	35°F to 110°F (1.7°C to 38°C)
Method	Brush, putty knife, caulk gun, trowel and spray
Preparation	Surface must be dry, dirt, oil, and grease free.
Rate	Apply at joints and fasteners 20 mil thick wet film
Clean Up Wet	Soap and water
Clean Up Dry	UNN-GRIP™ 798-ES or Solvent* (Use safe handling practices.)
Painting	Only latex or epoxy paints

STORAGE

DONOT FREEZE

Temperature	35°F to 110°F (1.7°C to 38°C)
Shelf Life	One year (unopened)
Flammability	Non-flammable

PRECAUTIONS

Surface must be clean and free of moisture, contamination and foreign matter. Do not allow this product to freeze. Apply when temperatures will not fall below freezing for at least 36 hours. Do not apply this product in weather exposed areas, or where temperatures will exceed 200°F. Keep out of the reach of children. Review MSDS for complete safety information prior to use. DO NOT use where acidic or alkaline chemicals are present (ie., lab fume hood, vents, etc.)

For Industrial Professional Use Only.

For additional information contact:



Carlisle Coatings & Waterproofing
900 Hensley Lane
Wylie, Texas 75098

Phone: (800) 527-7092 FAX: (972) 442-0076
WWW.HARDCAST.COM

601237



SURE-GRIP™ 404

SG-404

Solvent Based Duct Sealant

SURE-GRIP 404 is a fiber-free, solvent based, synthetic rubber duct sealant. It's exceptional strength, **fast drying time**, and **unmatched flexibility** make it ideal for those applications requiring a solvent based sealant. SURE-GRIP's low viscosity, **no-drip, no-string** formulation allows **fast application** for **labor savings** and **extended coverage** for **lower installed cost**.

TECHNICAL DATA

Color	Gray
Consistency	Heavy Brush On
Base	Synthetic Rubber Resin
Solvent	Toluene and Heptane
Weight per Gallon	8.8 lbs.
Solids Content	65%
Viscosity	150K - 200K cps
Coverage (per gal.)	Up to 320 lin. ft. at 3" width, 20 mil thickness
Shore A Hardness	>60
Flexibility	Excellent
Time to Test	24 hours
Service Temperature	-20°F to 200°F
Water Resistance	Excellent
Mildew Resistance	Mold & Mildew resistant
VOC	395 g/l
Pressure Classes	SMACNA 1/2, 1, 2, 3, 4, 6 and 10 inches w.g.
Seal Classes	SMACNA A, B, C
Packaging	11 oz. cart., 1 & 5 gal. pails.
Freeze/Thaw Stability	Passed 5 Cycles
Specifications Compliance	Passes ASTM D-2202

UNDERWRITERS LABORATORIES, INC.®

CLASSIFIED ADHESIVE

Surface Burning Characteristics **294U**

*Applied to inorganic reinforced cement board

FLAMESPREAD **10**

SMOKE DEVELOPED **5**

*Tested as applied in two 1/4 inch wide strips 8 inches on center at a coverage of 320 lin.ft./gal. Flash point of finished adhesive, closed cup: less than minus 14°C.

UL LISTED

17NF

UL 181B-M

Mastic closure systems for use with flexible duct systems or connectors.

City of Los Angeles Approval RR#8069

SURE-GRIP 404 PART NUMBERS

1 Case w/ (25) 11 oz. Cartridges	302014
1 Case w/ (4) 1-Gallon Pails	302009
1 - 5-Gallon Pail	302020

APPLICATION

Apply to entire surface of duct joint

Temperature	35°F to 100°F (1.7°C to 38°C)
Method	Brush, putty knife, caulk gun, trowel and spray
Preparation	Surface must be dry, dirt, oil and grease free.
Rate	Apply at joints and fasteners to 20 mil thick wet film
Clean Up	UNN-GRIP™ 798-ES or Solvent (Use safe handling practices.)
Painting	Allow 72 hours

STORAGE

Temperature	Below 90°F (32°C)
Shelf Life	One year (unopened)
Flammability	Flammable. Store according to code.

PRECAUTIONS

FLAMMABLE liquid and vapor. Keep away from open flame. May cause flash fire. Contains heptane and toluene solvents. Harmful if swallowed or inhaled. May cause eye irritation. Do not apply in weather exposed areas, or where temperatures will exceed 200°F. Keep out of the reach of children. Review Material Safety Data Sheet for complete safety information prior to use. **DO NOT** use where acidic or alkaline chemicals are present (ie., lab fume hood, vents, etc.)

For Industrial Professional Use Only.

For additional information contact:



Carlisle Coatings & Waterproofing
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900 Hensley Lane
Wylie, Texas 75098

Phone: (800) 527-7092 FAX: (972) 442-0076
WWW.HARDCAST.COM



VERSA-GRIP™ 102

VG-102

Indoor/Outdoor Water Based Duct Sealant

VERSA-GRIP 102 is a general purpose, **water based duct sealant** for use on all types of metal duct, glass fiber duct board, and flex duct, as well as duct fabric and flexible tubing runouts. VERSA-GRIP incorporates a built-in **fiber reinforcement** for **added strength**, with UV inhibitors for **extended outdoor exposure**. UL 181A-M listed / UL 181B-M listed.

TECHNICAL DATA

Color	White
Consistency	Heavy textured
Base	Synthetic latex
Solvent	Water
Weight per Gallon	11.6 lbs.
Solids Content	70%
Viscosity	Thixotropic
Coverage (UL 181 A-M)	Apply 18 mil, scrim, addt. 18 mil
(UL 181 B-M)	Approximately 214 to 320 lin. ft. per gal. at 20 to 30 mil wet film thickness at 3" width.
Shore A Hardness	>20
Flexibility	Passes 1/4 inch mandrel bend
Time to Test	48 hours*
Service Temperature	-20°F to 200°F
Mildew Resistance	Mold & Mildew resistant
VOC	45 g/l (less water)
Pressure Classes	SMACNA 1/2, 1, 2, 3, 4, 6 and 10 inches w.g.
Seal Classes	SMACNA A, B, C
Packaging	1, 2 & 5 gal. pails; 10.3 oz. cart.
Freeze/Thaw Stability	Passed 5 Cycles
Specification Compliance	Passes ASTM C-731, D-2202 USDA, EPA & FDA Approved

*May vary according to temperature and humidity



City of Los Angeles Approval RR#8427

VERSA-GRIP 102 PART NUMBERS

1 Case w/ (25) 11 oz. Cartridges	304152
1 Case w/ (4) 1-Gallon Pails	304153
1 - 2-Gallon Pail	304155
1 - 5 Gallon Pail	304154

APPLICATION

Apply to entire surface of duct joint

Temperature	35°F to 110°F (1.7°C to 44°C)
Method	Brush, putty knife, caulk gun, pump
Preparation	Surface must be dry, dirt, oil, and grease free.
Rate (UL 181 A-M):	Apply 18 mil, scrim and 18 mil over scrim.
(UL 181 B-M):	Approx. 214 to 320 lin. ft. per gal. at 20 to 30 mil wet film thickness at 3" width.
Clean Up Wet	Soap and water
Clean Up Dry	UNN-GRIP™ 798-ES or Solvent (Use safe handling practices.)
Painting	Only latex or epoxy paints
Ductboard	Scrim required for UL 181A-M

STORAGE - DO NOT FREEZE

Temperature	35°F to 110°F (1.7°C to 44°C)
Shelf Life	One year (unopened)
Flammability	Non-flammable

PRECAUTIONS

Surface must be clean and free of moisture, contamination and foreign matter. Do not allow this product to freeze. Do not apply when rain or freezing temperatures will occur within 36 hours.. Do not apply this product where temperatures will exceed 200°F. Keep out of the reach of children. Review MSDS for complete safety information prior to use. **DO NOT** use where acidic or alkaline chemicals are present (ie., lab fume hood, vents, etc.)

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Wylie, Texas 75098

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WWW.HARDCAST.COM



DUCT-SEAL™ 321

DS-321

Indoor/Outdoor Water Based Duct Sealant

DUCT-SEAL 321 is an **all purpose industrial grade duct sealant** for all types of metal duct, glass fiber duct board, and flex duct, as well as duct fabric and flexible tubing runouts. It includes UV inhibitors for **extended outdoor exposure** and built-in **fiber reinforcement** for **added strength**. This non-toxic water based product is solvent free and is suitable for residential use.

TECHNICAL DATA

Color	Gray
Consistency	Smooth creamy texture
Base	Synthetic latex
Solvent	Water
Weight per Gallon	10.6 lbs.
Solids Content	65%
Viscosity	Thixotropic
Coverage (per gal)	Up to 320 lin. ft. at 3" width 20 mil thickness
Shore A Hardness	>20
Flexibility	Passes 1/4 inch mandrel bend
Time to Test	48 hours*
Service Temperature	-20°F to 200°F
Weather Resistance	Weather resistant
Mildew Resistance	Mold & Mildew resistant
VOC (less water)	75 g/l (less water)
Pressure Classes	SMACNA 1/2, 1, 2, 3, 4, 6 and 10 inches w.g.
Seal Classes	SMACNA A, B, C
Packaging	11 oz. cart., 1, 2 & 5 gal. pails
Freeze/Thaw Stability	Passed 5 Cycles

Specifications Compliance Passes ASTM D-2202, ASTM C-731. USDA, EPA and FDA

*May vary according to temperature and humidity

CAULKING AND SEALANTS
94PF

UL LISTED SURFACE BURNING CHARACTERISTICS
FLAME SPREAD 0
SMOKE DEVELOPED 0

*Applied to inorganic reinforced Cement Board *Tested as applied in one 3 in. (76.2 mm) wide strip, on center covering 16.7 percent of the exposed test sample area) at a coverage of 80 sq. ft/ gal (2 sq. M/L). Flash point of finished sealant, closed cup: No flash to boiling.

UL LISTED 17NF
UL 181B-M

Mastic closure systems for use with flexible duct systems or connectors.

City of Los Angeles Approval RR #8069

DUCT-SEAL 321 PART NUMBERS

1 Case w/ (25) 11 oz. Cartridges	304159
1 Case w/ (4) 1-Gallon Pails	304156
1 - 2-Gallon Pail	304157
1 - 5-Gallon Pail	304158

APPLICATION

Apply to entire surface of duct joint

Temperature	35°F to 110°F (1.7°C to 44°C)
Method	Brush, putty knife, caulk gun, pump
Preparation	Surface must be dry, dirt, oil and grease free.
Rate	Apply at joints and fasteners to 20 mil thick wet film
Clean Up Wet	Soap and water
Clean Up Dry	UNN-GRIP™ 798-ES or Solvent (Use safe handling practices.)
Painting	Only latex or epoxy paints

STORAGE - DO NOT FREEZE

Temperature	35°F to 110°F (1.7°C to 44°C)
Shelf Life	One year (unopened)
Flammability	Non-flammable

PRECAUTIONS

Surface must be clean and free of moisture, contamination and foreign matter. Do not allow this product to freeze. Do not apply this when rain or freezing temperatures will occur within 36 hours. Do not apply this product where temperatures will exceed 200°F. Keep out of the reach of children. Review MSDS for complete safety information prior to use. **DO NOT** use where acidic or alkaline chemicals are present (ie., lab fume hood, vents, etc.)

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For additional information contact:



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Wylie, Texas 75098

Phone: (800) 527-7092 FAX: (972) 442-0076
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CCWI-181

CCWI-181

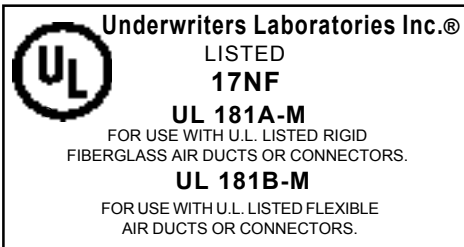
Indoor/Outdoor Water Based Duct Sealant

A versatile, **all purpose duct sealant** for use on all types of metal duct, glass fiber duct board, and flex duct, as well as duct fabric and flexible tubing runouts. CCWI 181 incorporates a built-in **polyester reinforcement** for **exceptional strength**, with UV inhibitors for outdoor use. UL 181A-M listed / UL 181B-M listed.

TECHNICAL DATA

Color	White
Consistency	Heavy textured
Base	Synthetic latex
Solvent	Water
Weight per Gallon	11.6 lbs. (+/- 0.2)
Solids Content	70% (+/- 2)
Viscosity	Thixotropic
Coverage (UL 181 A-M)	Apply 18 mil, scrim and 18 mil over scrim.
(UL 181 B-M)	Approximately 214 to 320 lin. ft. per gal. at 30 to 35 mil wet film thickness at 3" width.
Shore A Hardness	>20
Flexibility	Passes 1/4 inch mandrel bend
Time to Test	48 hours*
Service Temperature	-20°F to 200°F
Mildew Resistance	Mold & Mildew resistant
VOC	45 g/l (less water)
Pressure Classes	SMACNA 1/2, 1, 2, 3, 4, 6 and 10 inches w.g.
Seal Classes	SMACNA A, B, C
Packaging	1, 2 & 5 gal. pails; 10.3 oz. cart.
Freeze/Thaw Stability	Passed 5 Cycles
Specification Compliance ...	Passes ASTM C-731, ASTM D-2202. USDA, EPA and FDA Approved

*May vary according to temperature and humidity



City of Los Angeles Approval RR#8069

- **INDOOR/OUTDOOR**
- **POLY REINFORCEMENT**
- **NO-SAG FORMULATION**
- **PROVEN RELIABILITY**

APPLICATION

Apply to entire surface of duct joint

Temperature	35°F to 110°F (1.7°C to 44°C)
Method	Brush, putty knife, caulk gun, pump
Preparation	Surface must be dry, dirt, oil, and grease free.
Rate (UL 181 A-M):	Apply 18 mil, scrim and 18 mil over scrim.
(UL 181 B-M):	Approx. 214 to 320 lin. ft. per gal. at 30 to 35 mil wet film thickness at 3" width.
Clean Up Wet	Soap and water
Clean Up Dry	UNN-GRIP™ 798-ES or Solvent (Use safe handling practices.)
Painting	Only latex or epoxy paints
Ductboard	Scrim required for UL 181A-M

STORAGE

DO NOT FREEZE

Temperature	35°F to 110°F (1.7°C to 44°C)
Shelf Life	One year (unopened)
Flammability	Non-flammable

PRECAUTIONS

Surface must be clean and free of moisture, contamination and foreign matter. Do not allow this product to freeze. Do not apply when rain or freezing temperatures will occur within 36 hours. Do not apply this product where temperatures will exceed 200°F. Keep out of the reach of children. Review MSDS for complete safety information prior to use. **DO NOT** use where acidic or alkaline chemicals are present (ie., lab fume hood, vents, etc.)

For Industrial Professional Use Only.

For additional information contact:



Carlisle Coatings & Waterproofing
900 Hensley Lane
Wylie, Texas 75098

Phone: (800) 527-7092 FAX: (972) 442-0076
WWW.HARDCAST.COM



TRAVEL-TACK™

Insulation Adhesive in a Portable Spray System

TRAVEL-TACK is a self-contained, instant tacking, portable spray system engineered to deliver a low pressure web spray that eliminates adhesive vaporization and overspray. TRAVEL-TACK's portability, limited equipment clean-up and low equipment cost makes this adhesive ideal for shop or field use.

TRAVEL-TACK PART NUMBERS

1 Case w/ (12) 15 oz. Spray Cans (White) . . . . .	.308599
1-#12 Cylinder (Green) . . . . .	.308600
1-#40 Cylinder (Green) . . . . .	.308602
1-#187 Cylinder (Green) . . . . .	.308603
1-#375 Cylinder (Green) . . . . .	.308604
1-VOC #40 Cylinder (White) . . . . .	.308605

TECHNICAL DATA	STANDARD FORMULA	VOC COMPLIANT
Color	Green (15 oz. White)	White
Consistency	Aerosol spray	Aerosol spray
Spray Pattern	Variable web	Variable web
Odor	Solvent-like	Organic Solvent
Base	Polymer	Polymer
Vapor Pressure . . . . .	.350mm	350mm
Solvent	Methylene Chloride	Methyl Acetate, Hexane, Tertiary Butyl Acetate
Approx. Coverage* . . . . .	.125 sq.ft. per 1 lb. of adhesive.**	.125 sq.ft. per 1 lb. of adhesive.**
Initial Bonding Time	Immediate**	Immediate**
Dry Time	4 minutes**	4 minutes**
Adhesion	Excellent	Excellent
Service Temperature	-40°F to 200°F	-40°F to 200°F
Surface Burning	Flame Spread 5, Smoke developed 20 (When tested in accordance with ASTM E-84)	Flame Spread 0 Smoke developed 10 (When tested in accordance with ASTM E-84)
Flammability	Flammable when wet (flame projection test). Non-flammable when dry.	Flammable when wet (flame projection test). Non-flammable when dry.
Water Resistance	Excellent	Excellent
Mildew Resistance	Good	Good
VOC . . . . .	.424 g/l	<100 g/l
Packaging . . . . .	.15 oz. Spray Cans #12, #40, #187 & #375 Aerosol Cylinders	#40 Aerosol Cylinders
Specification Compliance . . . . .	.N/A	City of Los Angeles Approval RR #8069 VOC Compliant Formulation

**By Volume **For optimal coverage see Application Instruction Sheet, cylinder back label or cylinder shipping carton back label.*

STORAGE

Temperature . . . . .	.60°F to 95°F (15°C to 35°C)
Shelf Life	One year (unopened)
Flammability	Extremely flammable. Store according to code.

APPLICATION

Temperature . . . . .	.60°F to 90°F (15.5°C to 32.2°C) (Keep at 70°F for optimum performance. If canister temperature falls below 70°F, move it to a warm area until optimum performance is achieved.)
Method	For use in shop applications or field work. The self-contained property of TRAVEL-TACK allows improved mobility, reduced labor cost and greater jobsite efficiency. Apply according to SMACNA specifications and local codes.
Preparation	Surface must be dry, dirt, oil, moisture, & grease free.
Rate . . . . .	.16 ounces per minute
Clean Up	UN-TACK Cleaner/Adhesive Remover, petroleum solvents or mineral spirits.

PRECAUTIONS

Flammable liquid & vapor. Keep away from open flame. Do not expose to heat or store above 100° F. Do not puncture or incinerate can or canister. Harmful or fatal if swallowed. Avoid direct contact with skin or eyes. May cause eye irritation. If skin or eye contact causes irritation, flush with water & seek immediate medical attention. Use with adequate ventilation & avoid inhalation of spraymist or vapors. If inhalation causes irritation, remove individual to fresh air. Keep out of reach of children. Review Material Safety Data Sheet for complete safety information prior to use. Goggles & gloves recommended. Cylinders not refillable & when empty are harmless & disposable (according to local codes & laws.)

For Industrial Professional Use Only.



Insulation Adhesives • HARDCAST Performance

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SPEED-TACK™

Fast Tack, High Yield Water Based Insulation Adhesive

SPEED-TACK is a fast tack, water based insulation adhesive engineered for fast tacking, spray applications where a quick, strong tack is needed. For use when the duct section is stored vertically before pinning. SPEED-TACK's tack time rivals that of solvent based adhesives. It offers exceptional strength, low viscosity, great coverage and low suspended solids.

SPEED-TACK PART NUMBERS

1 Case w/ (4) 1-Gallon Pails (Cream)	.308588
1-5-Gallon Pail (Cream)	.308589
1-55-Gallon Drum (Cream)	.308590

TECHNICAL DATA

Color	.Cream (wet or dry)
Consistency	.Low viscosity liquid
Base	.Synthetic latex
Solvent	.Water
Weight per Gallon	.8.7 lbs. (+/- 0.2)
Solids Content	.45% (+/-2%)
Viscosity	.15,000 - 17,000 cps
Coverage	.Up to 650 sq.ft. /gal. (sprayed)
Initial Tack Time	.2 minutes* (3 mils @ RT)
Dry Time (to touch)	.20 minutes* (3 mils @ RT)
Service Temperature	.-20°F to 200°F
Surface Burning	.Flame Spread 0, Smoke developed 5, (When tested in accordance with ASTM E-84)
Water Resistance	.Good
Mildew Resistance	.Mold and mildew resistant
VOC	.70 g/l (less water)
Packaging	.1 gal. & 5 gal. pails, 55 gal. drum
Freeze/Thaw Stability	.Passed 5 cycles
Specification	
Compliance	.ASTM C-916

**For optimal coverage see Application Instruction Sheet, cylinder back label or cylinder shipping carton back label.*

STORAGE

Temperature	.45°F to 110°F (7.2°C to 44°C)
Shelf Life	.One year (unopened)
Flammability	.Non-flammable

APPLICATION

Temperature	. . . . .35°F to 110°F (1.7°C to 44°C)
Method	. . . . .For use in spray booth operations or specific areas when a high tack, water based adhesive is required. SPEED-TACK may be brush or roller applied to secure insulation to the substrate. Apply according to SMACNA specifications and local codes.
Preparation	. . . . .Surface must be dry, dirt, oil, moisture, & grease free.
Clean Up	. . . . .UN-TACK, Solvent or mineral spirits (Use safe handling practices.)

PRECAUTIONS

Inspect all winter shipments on arrival. Apply when temperatures will not fall below freezing. Do not apply this product in weather exposed areas, or where temperatures will exceed 160°F. Keep out of the reach of children. Review Material Safety Data Sheet for safety information prior to use.

For Industrial Professional Use Only.



Insulation Adhesives • HARDCAST Performance





SEAL-TACK™

Water Based Vapor Barrier/Lagging Insulation Sealant

SEAL-TACK is engineered to seal cut ends of fibrous glass duct liner or to coat foam insulation. It provides exceptional vapor barrier characteristics for liquid chiller piping insulation applications. SEAL-TACK's exceptional strength and weather resistance provides application flexibility for both indoor and outdoor use.

SEAL-TACK PART NUMBERS

1 Case w/ (4) 1-Gallon Pails (White) . . . . .	.308609
1-5 Gallon Pail (White) . . . . .	.308608

TECHNICAL DATA

Color	White
Consistency	High Viscosity Sealant
Base	Synthetic latex
Solvent	Water
Weight per Gallon	10.5 lbs. (+/- 0.2)
Solids Content . . . . .	.52 % (+/- 2%)
Viscosity	>150,000 cps
Coverage	Up to 200 sq. ft./gal.
Flexibility	Excellent
Dry Time (to touch) . . . . .	.30 minutes*
Service Temperature . . . . .	.0°F to 200°F
Surface Burning	Flame Spread 0, Smoke Developed 5, (When tested in accordance with ASTM E-84)
Weather Resistance	Excellent
Mildew Resistance	Mold & Mildew resistant
VOC . . . . .	.79 g/l (less water)
Packaging . . . . .	.1 and 5 gal. pails
Freeze/Thaw Stability	Passed 5 cycles

APPLICATION

Temperature . . . . .	.35°F to 110°F (1.7°C to 44°C)
Method	Apply with a brush, roller or spray to coat and seal cut edges of fiberglass and foam insulation. Apply according to SMACNA specifications and local codes.
Preparation	Surface must be dry, dirt, oil, and grease free.
Clean Up Wet	Soap and Water
Clean Up Dry	UN-TACK or Solvent. (Use safe handling practices.)
Painting	Only latex or epoxy paints

STORAGE

Temperature . . . . .	.35°F to 110°F (1.7°C to 44°C)
Shelf Life . . . . .	.One year (unopened)
Flammability . . . . .	.Non-flammable

PRECAUTIONS

Inspect all winter shipments on arrival. Do not allow this product to freeze. Apply when temperatures will not fall below freezing. Do not apply this product where temperatures will exceed 200°F. Keep out of the reach children. Review Material Safety Data Sheet for complete safety information prior to use.

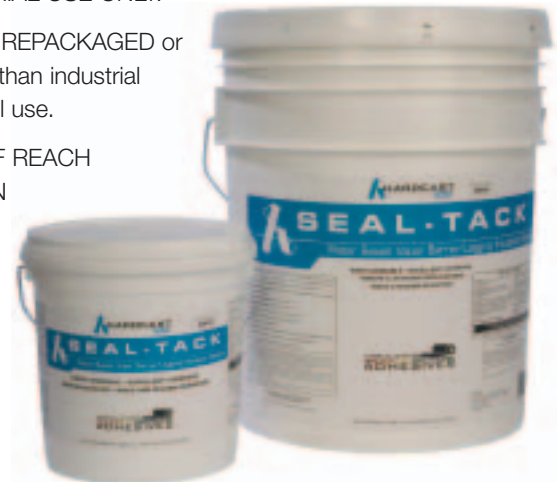
CAUTION: HARMFUL IF SWALLOWED OR INHALED Avoid breathing vapors. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling. If swallowed **DO NOT INDUCE VOMITING.** Call a physician. Overexposure to vapors may cause respiratory irritation. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Contact a physician immediately.

MAY CAUSE SKIN IRRITATION: Prolonged or repeated contact may cause drying, brittleness, cracking or irritation. Use of impervious gloves and clothing recommended. Avoid contact with skin. May be irritating to sensitive skin. Wash thoroughly after handling. In case of contact with skin, remove contaminated clothing and thoroughly wash affected area with soap and water. Do not use if skin is broken. If rash develops, discontinue use. Contact a physician if symptoms persist. **REVIEW MATERIAL SAFETY DATA SHEET FOR COMPLETE SAFETY INFORMATION PRIOR TO USE.**

CONTAINS: METHANOL, ETHYLENE GLYCOL and AMMONIA.
FOR INDUSTRIAL USE ONLY.

MAY NOT BE REPACKAGED or
sold for other than industrial
or professional use.

KEEP OUT OF REACH
OF CHILDREN





ROTO-TACK™

Mid Tack, High Yield Water Based Insulation Adhesive

ROTO-TACK is a mid tack, non-flammable, water-based insulation adhesive engineered for **mechanical roll coating** systems which rapidly apply adhesive to insulation prior to bonding to the sheet metal. ROTO-TACK offers exceptional versatility, low viscosity, low suspended solids and easy cleanup means lower application cost.

TECHNICAL DATA

CLEAR

BLACK

Color	White (wet), Clear (dry)	Gray (wet), Black (dry)
Consistency	Low viscosity liquid	Low viscosity liquid
Base	Synthetic latex	Synthetic latex
Solvent	Water	Water
Weight per Gallon	8.7 lbs. (+/- 0.2)	10.3 lbs. (+/- 0.2)
Solids Content	38% (+/- 2%)	48% (+/- 2%)
Viscosity	3,500-4,500 cps	5,000-7,000 cps
Coverage	Up to 530 sq.ft./ gal. (sprayed)	Up to 530 sq.ft./ gal. (sprayed)
Initial Bonding Time	.25 minutes* (5 mils @ RT)	20 minutes* (5 mils @ RT)
Dry Time	.40 minutes* (5 mils @ RT)	30 minutes* (5 mils @ RT)
Service Temperature	-20°F to 200°F	-20°F to 200°F
Water Resistance	Good	Good
Mildew Resistance	Mold and mildew resistant	Mold and mildew resistant
VOC	.73 g/l (less water)	71 g/l (less water)
Packaging	1 gal. pail, 5 gal. pail, 55 gal. drum	1 gal. pail, 5 gal. pail, 55 gal. drum
Freeze/Thaw Stability	Passed 5 cycles	Passed 5 cycles
Specification		
Compliance	Passed ASTM C-916	Passed ASTM C-916

**For optimal coverage see Application Instruction Sheet, cylinder back label or cylinder shipping carton back label.*

ROTO-TACK PART NUMBERS

1 Case w/ (4) 1-Gallon Pails (Black)	308577
1 Case w/ (4) 1-Gallon Pails (Clear)	308575
1-5-Gallon Pail (Black)	308576
1-5-Gallon Pail (Clear)	308574
1-55-Gallon Drum (Black)	308578
1-55-Gallon Drum (Clear)	308573

STORAGE

Temperature	.35°F to 110°F (1.7°C to 44°C)
Shelf Life	One year (unopened)
Flammability	Non-flammable

APPLICATION

Temperature	.35°F to 110°F (1.7°C to 44°C)
Method	For use in mechanical roll coating and extruding coil line systems. ROTO-TACK may also be used in spray booth applications. Use when the insulation is promptly secured by an insulation fastener or the duct section is stored horizontally until the adhesive is dry. May be brush or roller applied to secure insulation to the substrate. Apply according to SMACNA specifications and local codes.
Preparation	Surface must be dry, dirt, oil, moisture, & grease free.
Clean Up	UN-TACK or Solvent. (Use safe handling practices.)

APPROVALS



UNDERWRITERS LABORATORIES, INC.®

CLASSIFIED ADHESIVE

Surface Burning Characteristics 294U

*Applied to inorganic reinforced cement board

FLAME SPREAD	.0
SMOKE DEVELOPED	.0

*Tested as applied in two 3 inch (76.2mm) wide strips 8 inches (203.2mm) on center at a coverage of 530 sq.ft./gal. (13 sq.M/L.) Flash point of finished adhesive, closed cup: No flash to boiling

City of Los Angeles Approval RR #8069

PRECAUTIONS

Inspect all winter shipments on arrival. Apply when temperatures will not fall below freezing. Do not apply this product in weather exposed areas, or where temperatures will exceed 200°F. Keep out of the reach of Children. Review Material Safety Data Sheet for safety information prior to use.

For Industrial Professional Use Only.



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INSTA-TACK™

Rapid Tacking, Solvent Based Insulation Adhesive

INSTA-TACK is an instant tack, solvent based insulation adhesive engineered for spray booth applications in high humidity environments. For use when the duct section is stored vertically or horizontally before pinning. INSTA-TACK's exceptional coverage and fast tack provides reduced labor and overall lower application cost.

TECHNICAL DATA

RED

BLACK

Color	Red (wet), Clear (dry)	Black (wet), Clear (dry)
Consistency	Low viscosity liquid	Low viscosity liquid
Base	Synthetic polymers & resins	Synthetic polymers & resins
Solvent	Aliphatic	Aliphatic
Weight per Gallon	6.5 lbs.	6.5 lbs.
Solids Content	33%	33%
Viscosity	200 cps	200 cps
Coverage	500-700 sq.ft. per gallon	500-700 sq.ft. per gallon
Tack Time	Immediate	Immediate
Open Time	Approximately 15 minutes	Approximately 15 minutes
Service Temperature	-20°F to 200°F	-20°F to 200°F
Water Resistance	Excellent	Excellent
Mildew Resistance	Excellent	Excellent
VOC	543 g/l	543 g/l
Packaging	1 gal. pail, 5 gal. pail, 55 gal. drum	1 gal. pail, 5 gal. pail, 55 gal. drum
Freeze/Thaw Stability	Passed 5 cycles	Passed 5 cycles

**For optimal coverage see Application Instruction Sheet, cylinder back label or cylinder shipping carton back label.*

INSTA-TACK PART NUMBERS

1 Case w/ (4) 1-Gallon Pails (Red)	308591
1 Case w/ (4) 1-Gallon Pails (Black)	308595
1-5-Gallon Pail (Red)	308592
1-5-Gallon Pail (Black)	308596
1-55-Gallon Drum (Red)	308593
1-55-Gallon Drum (Black)	308597

STORAGE

Temperature	Below 90°F (32°C)
Shelf Life	One year (unopened)
Flammability	Extremely flammable. Store according to code.

APPLICATION

Temperature	35°F to 110°F (1.7°C to 44°C)
Method	For use in high humid areas where a strong, quick tack is desired. INSTA-TACK may be brush or roller applied to secure insulation to the substrate. Apply according to SMACNA specifications and local codes.
Preparation	Surface must be dry, dirt, oil, moisture, & grease free.
Clean Up	UN-TACK, Solvent or mineral spirits (Use safe handling practices.)

PRECAUTIONS

EXTREMELY FLAMMABLE LIQUID AND VAPOR.

Keep away from sparks and open flame. May cause flash fire. Vapors are heavier than air and may travel to a distant ignition source. Contains heptane solvents. Harmful if swallowed or inhaled. May cause eye irritation. Keep out of the reach of children. Review Material Safety Data Sheet for complete safety information prior to use.

For Industrial Professional Use Only.



APPROVALS



UNDERWRITERS LABORATORIES, INC.®

CLASSIFIED ADHESIVE

Surface Burning Characteristics 294U

*Applied to inorganic reinforced cement board

FLAME SPREAD	0
SMOKE DEVELOPED	0

*Tested as applied in two 3 inch wide strips 8 inches on center at a coverage of 750 sq. ft./gal. Flash point of finished adhesive, closed cup; less than -10°C.

Insulation Adhesives • HARDCAST Performance

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GLAS-GRIP™ 658

GG-658

Insulation Adhesive in a Portable Spray System

A fast setting, pressure sensitive insulation adhesive. The self-contained spray system delivers a special low pressure web spray that eliminates adhesive vaporization and spray bounce-back. Limited equipment clean-up and low equipment cost. Solvent based yet has limited flammability. This results in a more efficient, spray system that works faster with no equipment down time for **lower operational costs.**

TECHNICAL DATA

Color	Green
Consistency	Aerosol spray
Spray Pattern	Variable web
Odor	Solvent-like
Base	Polymer
Vapor Pressure	350mm
Solvent	Methylene Chloride
Coverage	Approx. 125sq.ft. per 1 lb. of adhesive.* 16 oz. spray can = 125 sq. ft.* 12 lb. cylinder = 1,500 sq. ft.* 40 lb. cylinder = 5,000 sq. ft.* 185 lb. cylinder = 23,000 sq. ft.* 375 lb. cylinder = 46,000 sq. ft.*
Initial Bonding Time	Immediate
Dry Time	4 minutes
Adhesion	Excellent
Service Temperature	35°F to 200°F
Surface Burning	Flame Spread 0, Smoke developed 0, <i>(When tested in accordance with ASTM E-84)</i>
Flammability	Flammable when wet (flame projection test). Non-flammable when dry.
Water Resistance	Excellent
Mildew Resistance	Good
VOC	266 g/l
Packaging	16 oz Spray Cans, 12 lb., 40 lb., 187 lb. and 375 lb. Aerosol Cylinders

*For optimal coverage see Application Instruction Sheet, cylinder back label or cylinder shipping carton back label.

GLAS-GRIP 658 PART NUMBERS

1 Case w/ (12) 16 oz. Spray Cans	304292
1 - 12 lb. Cylinder	304293
1 - 40 lb. Cylinder	304294
1 - 187 lb. Cylinder	304295
1 - 375 lb. Cylinder	304296

APPLICATION

Temperature	55°F to 95°F
Method	Self-contained, low pressure web spray. Only use Hardcast approved guns and hoses & leave pressurized when not in use. Dispense product weekly to prevent clogging. When long periods of storage are anticipated, clear product from delivery devices.
Preparation	Surface must be dirt, oil, moisture, and grease free.
Rate	See instructions on package.
Clean Up	UNN-GRIP 798™-ES or Solvent (Use safe handling practices.)

STORAGE

Temperature	Between 40°F and 95°F
Shelf Life	One year (unopened)
Flammability	Flammable. Store according to code. Keep cylinders & cans below 120°F.

PRECAUTIONS

Flammable liquid propellant and vapor. Keep away from open flame. Use with adequate ventilation. Avoid inhalation of spray mist or vapors. Contains methylene chloride which has caused cancer in certain laboratory animals, although there has been no evidence of it causing cancer in humans. Health risk depends on level and duration of exposure. Harmful or fatal if swallowed. May cause eye irritation. Keep out of reach of children. Review Material Safety Data Sheet for complete safety information prior to use. Use of goggles & gloves recommended. Spray cans, 12 lb. & 40 lb. cylinders not refillable & when empty are harmless & disposable. Dispose according to local codes & laws.

For Industrial Professional Use Only.

For additional information contact:



Carlisle Coatings & Waterproofing
Incorporated
900 Hensley Lane
Wylie, Texas 75098

Phone: (800) 527-7092 FAX: (972) 442-0076
WWW.HARDCAST.COM



GLAS-GRIP™ 637 SE

GG-637 SE

Fast Tacking, Solvent Based Insulation Adhesive

A solvent based, flammable (wet,) self extinguishing (dry) insulation adhesive. GLAS-GRIP 637 SE insulation adhesive offers **exceptional strength**, low viscosity for easy application. GLAS-GRIP's **exceptional coverage and fast tack** means **reduced labor** and overall **lower application costs**.

TECHNICAL DATA

Color	Black (wet) Clear (dry)
Consistency	Low viscosity liquid
Base	Synthetic polymers & resins
Solvent	Aliphatic
Weight per Gallon	6.5 lbs.
Solids Content	33.0 %
Viscosity	200 cps
Coverage	500-700 sq.ft. per gallon
Tack Time	Immediate
Open Time	Approximately 15 minutes
Service Temperature	-20°F to 200°F
Water Resistance	Excellent
Mildew Resistance	Excellent
VOC	543 g/l
Packaging	1 gal., 5 gal., 50 gal. drum

UNDERWRITERS LABORATORIES, INC.®

CLASSIFIED
ADHESIVE
Surface Burning Characteristics
294U

*Applied to inorganic reinforced cement board

FLAME SPREAD	0
SMOKE DEVELOPED	0

*Tested as applied in two 3 inch wide strips 8 inches on center at a coverage of 750 sq. ft./gal. Flash point of finished adhesive, closed cup; less than -10°C.

GLAS-GRIP 637 SE PART NUMBERS

1 Case w/ (4) 1-Gallon Pails	304868
1 - 5-Gallon Pail	304869
1 - 50-Gallon Drum	304870

APPLICATION

Temperature	35°F to 110°F (1.7°C to 44°C)
Method	Brush, Roller or Spray: 1.1 Graco diaphragm pump 31311. ARO 6660, DeVilbiss JGA502 or Binks 2001 Spray Gun; Delta Spray 24364
Preparation	Surface must be dirt, oil, moisture, and grease free.
Rate	16 ounces per minute
Clean Up	UNN-GRIP™ 798-ES or Solvent (Use safe handling practices.)

STORAGE

Temperature	Below 90°F (32°C)
Shelf Life	One year (unopened)
Flammability	Extremely flammable. Store according to code.

PRECAUTIONS

EXTREMELY FLAMMABLE LIQUID AND VAPOR. Keep away from sparks and open flame. May cause flash fire. Vapors are heavier than air and may travel to a distant ignition source. Contains heptane solvents. Harmful if swallowed or inhaled. May cause eye irritation. Keep out of the reach of children. Review Material Safety Data Sheet for complete safety information prior to use.

For Industrial Professional Use Only.

For additional information contact:



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Incorporated
900 Hensley Lane
Wylie, Texas 75098

Phone: (800) 527-7092 FAX: (972) 442-0076
WWW.HARDCAST.COM



GLAS-GRIP™ 636 SE

GG-636 SE


Fast Tacking, Solvent Based Insulation Adhesive

A solvent based, flammable (wet), self extinguishing (dry) insulation adhesive. GLAS-GRIP 636 SE insulation adhesive offers **exceptional strength**, low viscosity for easy application. GLAS-GRIP's **exceptional coverage and fast tack** means **reduced labor** and overall **lower application costs**.

TECHNICAL DATA

Color	Red (wet) Clear (dry)
Consistency	Low viscosity liquid
Base	Synthetic polymers & resins
Solvent	Aliphatic
Weight per Gallon	6.5 lbs.
Solids Content	33.0 %
Viscosity	200 cps
Coverage	500-700 sq.ft. per gallon
Tack Time	Immediate
Open Time	Approximately 15 minutes
Service Temperature	-20°F to 200°F
Water Resistance	Excellent
Mildew Resistance	Excellent
VOC	543 g/l
Packaging	1 gal., 5 gal., 50 gal. drum

UNDERWRITERS LABORATORIES, INC.®

CLASSIFIED

CLASSIFIED
ADHESIVE
 Surface Burning Characteristics
 294U
 *Applied to inorganic reinforced cement board

FLAMESPREAD 0
 SMOKE DEVELOPED 0

*Tested as applied in two 3 inch wide strips 8 inches on center at a coverage of 750 sq. ft./gal. Flash point of finished adhesive, closed cup; less than -10°C.

GLAS-GRIP 636 SE PART NUMBERS

1 Case w/ (4) 1-Gallon Pails	304864
1 - 5-Gallon Pail	304865
1 - 50-Gallon Drum	304866

APPLICATION

Temperature	35°F to 110°F (1.7°C to 44°C)
Method	Brush, Roller or Spray: 1.1 Graco diaphragm pump 31311. ARO 6660, DeVilbiss JGA502 or Binks 2001 Spray Gun; Delta Spray 24364
Preparation	Surface must be dirt, oil, moisture, and grease free.
Rate	16 ounces per minute
Clean Up	UNN-GRIP™ 798-ES or Solvent (Use safe handling practices.)

STORAGE

Temperature	Below 90°F (32°C)
Shelf Life	One year (unopened)
Flammability	Extremely flammable. Store according to code.

PRECAUTIONS

EXTREMELY FLAMMABLE LIQUID AND VAPOR. Keep away from sparks and open flame. May cause flash fire. Vapors are heavier than air and may travel to a distant ignition source. Contains heptane solvents. Harmful if swallowed or inhaled. May cause eye irritation. Keep out of the reach of children. Review Material Safety Data Sheet for complete safety information prior to use.

For Industrial Professional Use Only.

For additional information contact:



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900 Hensley Lane
Wylie, Texas 75098

Phone: (800) 527-7092 FAX: (972) 442-0076
WWW.HARDCAST.COM



COIL-TACK™

Low Tack, High Yield Water Based Insulation Adhesive

COIL-TACK is a low tack, nonflammable, water based insulation adhesive engineered for spray or extruding coil line applications. The low viscosity, low suspended solids eliminates clogging within the adhesive delivery system ensuring consistent operation. COIL-TACK's exceptional coverage and easy cleanup means lower application cost.

COIL-TACK PART NUMBERS


1 Case w/ (4) 1-Gallon Pails (White)	308579
1 Case w/ (4) 1-Gallon Pails (Black).	308583
1-5-Gallon Pail (White)	308580
1-5-Gallon Pail (Black).	308582
1-55-Gallon Drum (White)	308581
1-55-Gallon Drum (Black)	308584

TECHNICAL DATA

Color	White (wet), White (dry) and Gray (wet), Black (dry)
Consistency	Low viscosity liquid
Base	Synthetic latex
Solvent	Water
Weight per Gallon	10.0 lbs. (+/- 0.2)
Solids Content . . . . .	.36% (+/- 2%)
Viscosity	11,000 - 12,000 cps
Coverage	Up to 530 sq.ft./gal. (sprayed)
Initial Bonding Time . . . . .	.30 minutes* (5 mils @ RT)
Dry Time . . . . .	.45 minutes to 1 hour* (5 mils @ RT)
Service Temperature	-20°F to 200°F
Water Resistance	Good
Mildew Resistance	Mold and mildew resistant
VOC . . . . .	.71 g/l (less water)
Packaging	1 gal. pail, 5 gal. pail, 55 gal. drum
Freeze/Thaw Stability	Passed 5 cycles
Specification Compliance	Passed ASTM C-916

**For optimal coverage see Application Instruction Sheet, cylinder back label or cylinder shipping carton back label.*

APPROVALS

	UNDERWRITERS LABORATORIES, INC.® CLASSIFIED ADHESIVE Surface Burning Characteristics 294U *Applied to inorganic reinforced cement board
FLAME SPREAD . . . . .	.0
SMOKE DEVELOPED . . . . .	.0
*Tested as applied in two 3 inch (76.2mm) wide strips 8 inches (203.2mm) on center at a coverage of 530 sq.ft./gal. (13 sq.M/L.) Flash point of finished adhesive, closed cup: No flash to boiling	
City of Los Angeles Approval RR #8069	

APPLICATION

Temperature . . . . .	.35°F to 110°F (1.7°C to 44°C)
Method	For use in spray or extruding coil line applications. COIL-TACK may also be used in spray booth applications. Use when the insulation is immediately secured by an insulation fastener or the duct section is stored horizontally until the adhesive is dry. May also be brush or roller applied to secure insulation to the substrate. Apply according to SMACNA specifications and local codes.
Preparation	Surface must be dry, dirt, oil, moisture, & grease free.
Clean Up	UN-TACK or Solvent. (Use safe handling practices.)

STORAGE

Temperature . . . . .	.35°F to 110°F (1.7°C to 44°C)
Shelf Life	One year (unopened)
Flammability	Non-flammable

PRECAUTIONS

Inspect all winter shipments on arrival. Apply when temperatures will not fall below freezing. Do not apply this product in weather exposed areas, or where temperatures will exceed 200°F. Keep out of the reach of children. Review Material Safety Data Sheet for safety information prior to use.

For Industrial Professional Use Only.



Insulation Adhesives • HARDCAST Performance

Carlisle Coatings and Waterproofing, Incorporated • 900 Hensley Lane • Wylie, TX 75098 • 800-527-7092 • www.hardcast.com

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BOOTH-TACK™

Quick Tack, High Yield Water Based Insulation Adhesive

BOOTH-TACK is a quick tack, non-flammable, water-based insulation adhesive engineered for spray booth applications. For use in situations when duct insulation is promptly secured by an insulation fastener or the duct section is stored horizontally until the adhesive is dry. BOOTH-TACK offers high strength, low viscosity, great coverage and low suspended solids.

BOOTH-TACK PART NUMBERS

1 Case w/ (4) 1-Gallon Pails (Black)	.308586
1-5-Gallon Pail (Black)	.308585
1-55-Gallon Drum (Black)	.308587

STORAGE

Temperature	.35°F to 110°F (1.7°C to 44°C)
Shelf Life	.One year (unopened)
Flammability	.Non-flammable

TECHNICAL DATA

Color	.Gray (wet), Black (dry)
Consistency	.Low viscosity liquid
Base	.Synthetic latex
Solvent	.Water
Weight per Gallon	.10.0 lbs. (+/- 0.2)
Solids Content	.53% (+/-2)
Viscosity	.8,500-9,500 cps
Coverage	.Up to 530 sq.ft./gal. (sprayed)
Initial Bonding Time	.10 minutes* (5 mils @ RT)
Dry Time	.20 minutes* (5 mils @ RT)
Service Temperature	.-20°F to 200°F
Water Resistance	.Good
Mildew Resistance	.Mold and mildew resistant
VOC	.71 g/l (less water)
Packaging	.1 gal. pail, 5 gal. pail, 55 gal. drum
Freeze/Thaw Stability	.Passed 5 cycles
Specification	
Compliance	.Passed ASTM C-916

**For optimal coverage see Application Instruction Sheet, cylinder back label or cylinder shipping carton back label.*

APPLICATION


Temperature	.35°F to 110°F (1.7°C to 44°C)
Method	.For use in spray booth operations or specific areas. BOOTH-TACK may be brush or roller applied to secure insulation to the substrate. Apply according to SMACNA specifications and local codes. moisture, & grease free.
Clean Up	.UN-TACK or Solvent. (Use safe handling practices.)

PRECAUTIONS

Inspect all winter shipments on arrival Apply when temperatures will not fall below freezing. Do not apply this product in weather exposed areas, or where temperatures will exceed 160°F. Keep out of the reach of children. Review Material Safety Data Sheet for safety information prior to use.

For Industrial Professional Use Only.

APPROVALS

CLASSIFIED

UNDERWRITERS LABORATORIES, INC.®
 CLASSIFIED ADHESIVE
 Surface Burning Characteristics 294U
 *Applied to inorganic reinforced cement board

FLAME SPREAD	.0
SMOKE DEVELOPED	.0

*Tested as applied in two 3 inch (76.2mm) wide strips 8 inches (203.2mm) on center at a coverage of 530 sq.ft./gal. (13 sq. M/L.) Flash point of finished adhesive, closed cup: No flash to boiling

City of Los Angeles Approval RR #8069



Insulation Adhesives • HARDCAST Performance



UN-TACK™

Adhesive Remover & Cleaner

UN-TACK Adhesive Remover & Cleaner is designed to remove TRAVEL-TACK spray adhesives from a variety of surfaces including metals, vinyl, plastics, most fabrics, rubber and glass. UN-TACK also helps remove damaged and improperly installed insulation and other materials. This product will also remove most other adhesives and contact cements. It will help prepare surfaces for application of Hardcast rolled sealants and butyl tapes and other adhesives. It will also help remove Hardcast rolled sealants, butyl tape & other tape adhesives.

UN-TACK PART NUMBERS

1 Case w/ (12) 13 oz. Spray Cans	.308606
1-#9 Cylinder	.308607

TECHNICAL DATA

Color	.Clear
Consistency	.Aerosol spray
Odor	.Slight solvent
Base	.Proprietary
Solvent	.Proprietary
Vapor Pressure	.Not Determined
VOC	.>250 g/l
Application Temperature	.50°F to 110°F
Flammability	.Flammable
Water Resistance	.Negligible
Packaging	.13 oz. Spray Cans and #9 Aerosol Cylinders

PRECAUTIONS

Flammable liquid propellant and vapor. Keep away from open flame. Use with adequate ventilation. Avoid inhalation of spray mist vapors. Harmful or fatal if swallowed. May cause eye irritation. Keep out of reach of children. Review Material Safety Data Sheet for complete safety information prior to use. Use of goggles & gloves recommended. Cylinders not refillable & when empty are harmless disposable. Dispose according to local codes & laws. Keep cans and cylinders below 100°F

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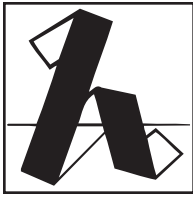
STORAGE

Temperature	.50°F and 110°F (10°C to 44°C)
Shelf Life	.One year (unopened)
Flammability	.Flammable. Store according to code.

APPLICATION

To Clear Clogged Spray Gun & Hose	.Lock spray gun trigger. Attach gun & hose to cylinder. Open valve. Allow line to charge. Let system sit. Aim gun away from people, unlock trigger, spray until clean. Repeat until system is clear.
To Clean Up Excess Adhesive	.Spray directly onto adhesive to be removed & wipe with cloth. Can also spray on cloth & wipe. (Wear rubber gloves & goggles)
To Separate Surfaces or Remove Rolled Sealants	.Spray around corner edges & lif surface to be removed with flat tool. Continue lifting and spray under surface until separated.





TGM-3300

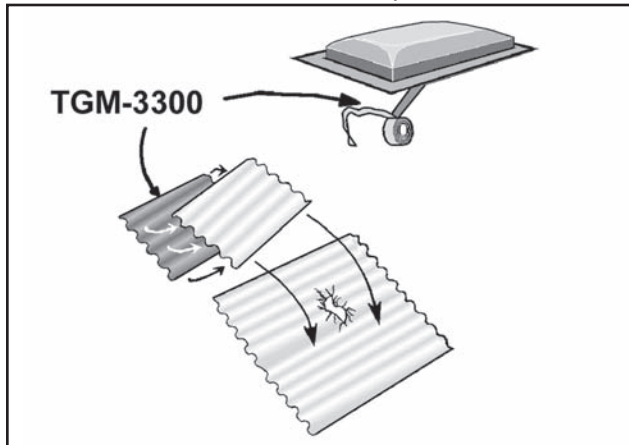
TGM-3300

Butyl-Based Adesive/Sealant

TGM-3300 is a butyl-based material between two release liners capable of bonding a variety of items together. TGM-3300 offers an aggressive grip, stays flexible during application, assuring immediate adhesion on contact, and superior long-term bonding. Perfect for metal, plastics and some fabrics, TGM-3300's pressure sensitive properties allow a fast, clean and easy application.

TECHNICAL DATA

Appearance	Smooth, Gray, Gum-like Material Layered Between Film Release Liners.
Bonding Time	Immediate Water Tight Aggressive Grip (Full bond within 24 hours)
Thickness	.32 mils
Backing	None
Adhesive	THE GRAY MATTER™ Elastomeric Modified Butyl Rubber
Operating Temperature	-20°F to 200°F
Low Temperature Flexibility	Passes, no cracking
Tensile Strength	.445 psi avg.
Peel Strength	.17 lbs. per linear inch
Water Resistance	Excellent (Surface must be clean and dry before application)
U.V. Resistance	Avoid direct U.V. exposure



TGM-3300 PART NUMBERS

1 Case w/ (24) 2" x 50' Rolls	304259
1 Case w/ (16) 3" x 50' Rolls	304260
1 Case w/ (12) 4" x 50' Rolls	304261
1 Case w/ (8) 6" x 50' Rolls	304262
1 Case w/ (4) 12" x 50' Rolls	304983

APPLICATION

Preparation	Clean surface - Remove dust, dirt, oil and moisture. Peel off few inches of release liner.
Method	Apply exactly the first time, attempt to remove may damage tape and roofing. DO NOT STRETCH. Press down firmly starting at center and working toward outside edge of tape, removing bubbles. Edges must have no openings, tunnels or fishmouths. Remove white release liner. Matchup surfaces to be joined. Carefully, exactly press the surfaces together.

Temperature35°F to 110°F

STORAGE

Temperature30°F to 110°F

Shelf Life24 Months

FlammabilityNon-flammable

(Contains no Asbestos, CFC or PCB)

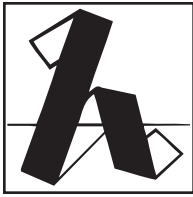
PRECAUTIONS

Surfaces must be clean and free of moisture and contamination. Do not apply this product where temperatures will exceed 200°F. Do not stretch this product during application. Keep out of the reach of children. Review MSDS for safety information prior to use. DO NOT use where acidic or alkaline chemicals are present (ie., lab fume hood, vents, etc.)

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SST-3301

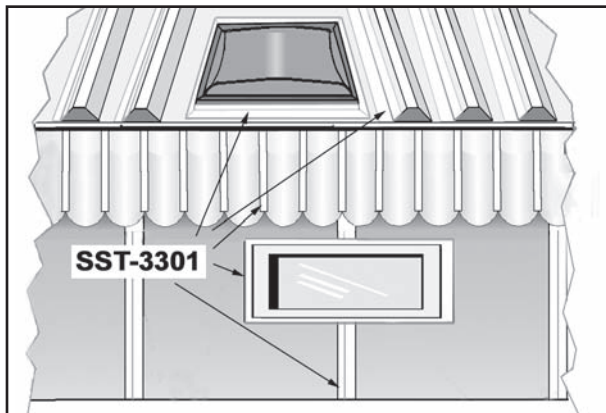
SST-3301

UV Resistant Sealing Tape

SST-3301 is a non-gloss, white backed sealing tape for UV exposure applications. SST-3301 has an aggressive grip, stays flexible during application, assuring immediate sealing on contact, and superior long-term adhesion. SST-3301's pressure sensitive properties allow a fast, clean and easy application.

TECHNICAL DATA

Appearance	Non-Gloss White Backing
Bonding Time	Immediate Water Tight Aggressive Grip (Full bond within 24 hours)
Thickness	.20 mils
Backing	U.V. Resistant HDPE Film
Adhesive	THE GRAY MATTER™ Elastomeric Modified Butyl Rubber
Operating Temperature	-20°F to 200°F
Low Temperature Flexibility	Passes, no cracking
Tensile Strength	.445 psi avg.
Peel Strength	17 lbs. per linear inch
Water Resistance	Excellent (Surface must be clean and dry before application)
U.V. Resistance	Excellent



SST-3301 PART NUMBERS

1 Case w/ (24) 2" x 100' Rolls	304247
1 Case w/ (16) 3" x 100' Rolls	304248
1 Case w/ (12) 4" x 100' Rolls	304249
1 Case w/ (8) 6" x 100' Rolls	304250

APPLICATION

Preparation	Clean surface - Remove dust, dirt, oil and moisture. Peel off few inches of release liner.
Method	Apply exactly the first time, attempt to remove may damage tape and roofing. DO NOT STRETCH. Press down firmly starting at center and working towards outside removing bubbles. Edges must have no openings, tunnels, or fishmouths.
Temperature	.35°F to 110°F

STORAGE

Temperature	.30°F to 110°F
Shelf Life	.24 Months
Flammability	Non-flammable (Contains no Asbestos, CFC or PCB)

PRECAUTIONS

Surfaces must be clean and free of moisture and contamination. Do not apply this product where temperatures will exceed 200°F. Do not stretch this product during application. Keep out of the reach of children. Review MSDS for safety information prior to use. DO NOT use where acidic or alkaline chemicals are present (ie., lab fume hood, vents, etc.)

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AFT-701

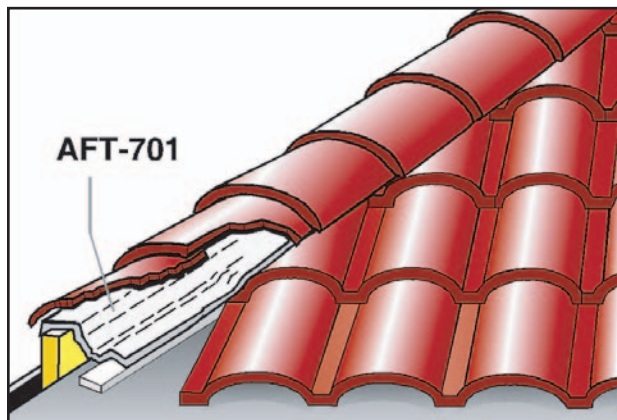
AFT-701

Aluminum Hip & Ridge Sealing & Flashing Tape

AFT-701 is designed for sealing hip and ridge areas on roof applications. It's also excellent for general flashing applications. AFT-701 has an aggressive grip, stays flexible during application, assuring immediate sealing on contact, and superior long-term adhesion. Providing leakproof results, this butyl adhesive/sealant is asphalt and solvent free and offers easy, fast application.

TECHNICAL DATA

Appearance	Mill finish aluminum foil
Bonding Time	Immediate Water Tight Aggressive Grip (Full bond within 24 hours)
Thickness	.30 mils
Backing	Aluminum Foil
Adhesive	THE GRAY MATTER™ Elastomeric Modified Butyl Rubber
Operating Temperature	-20°F to 200°F
Low Temperature Flexibility	Passes, no cracking
Tensile Strength	.445 psi avg.
Peel Strength	.17 lbs. per linear inch
Water Resistance	Excellent (Surface must be clean and dry before application)
U.V. Resistance	Excellent



AFT-701 PART NUMBERS

1 Case w/ (8) 6" x 50' Rolls	.304081
1 Case w/ (6) 9" x 50' Rolls	.304082
1 Case w/ (6) 12" x 50' Rolls	.304077

APPLICATION

Preparation ... Clean surface - Remove dust, dirt, oil and moisture. Peel off few inches of release liner.

Method ... Apply exactly the first time, removal may damage tape and roof. Center tape on ridge board. First guide tape to lowest part of tile or shingle. **DO NOT STRETCH.** Press down firmly starting at lowest or most outside edge workin back toward center of tape, removing bubbles. Edges must have no openings, tunnels, or fishmouths.

Temperature35°F to 110°F

STORAGE

Temperature30°F to 110°F

Shelf Life24 Months

Flammability ... Non-flammable
(Contains no Asbestos, CFC or PCB)

PRECAUTIONS

Surfaces must be clean and free of moisture and contamination. Do not apply this product where temperatures will exceed 200°F. Do not stretch this product during application. Keep out of the reach of children. Review MSDS for safety information prior to use. **DO NOT** use where acidic or alkaline chemicals are present (ie., lab fume hood, vents, etc.)

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RMR-6325

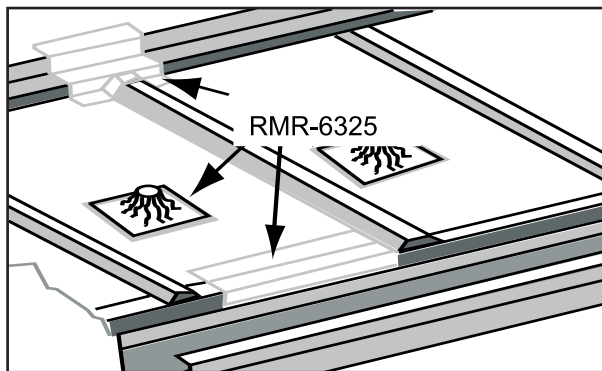
RMR-6325

Metal Surface Sealant & Flashing Membrane

RMR-6325 is a white, surface & shape-adapting rubber membrane for flashing and sealing unusual roofing needs including fasteners on metal roof installations. RMR-6325 has an aggressive grip, stays flexible during application, assuring immediate sealing on contact, and superior long-term adhesion. RMR-6325's pressure sensitive properties allow a fast, clean and easy application.

TECHNICAL DATA

Appearance	White Rubber Membrane
Bonding Time	Immediate Water Tight Aggressive Grip (Full bond within 24 hours)
Thickness	.60 mils
Backing	White EPDM
Adhesive	THE GRAY MATTER™ Elastomeric Modified Butyl Rubber
Cure Time	6 days @ 170°F. <i>(If membrane cures to unformable state prior to application, it can still be applied to straight runs, but cannot be used for irregular shapes)</i> 12 days @ 152°F. 23 days @ 134°F. 45 days @ 116°F. 3 mos. @ 98°F. 6 mos. @ 60° to 80°F.
Operating Temperature	-20°F to 180°F
Brittle Temperature Max.	-75°F
Tensile Strength	.1305 psi min.
Elongation	.350%
Tear Resistance	.175 lbf/in.
Peel Strength	.17 lbs. per linear inch
Water Resistance	Superior (Surface MUST be clean and dry before application)
U.V. Resistance	Excellent
Ozone Resistance	No Cracks



RMR-6325 PART NUMBERS

1 Case w/ (16) 3" x 25' Rolls	304204
1 Case w/ (12) 4" x 25' Rolls	304205
1 Case w/ (8) 6" x 25' Rolls	304206
1 Case w/ (4) 12" x 25' Rolls	304203

APPLICATION

Preparation Clean surface - Remove dust, dirt, oil and moisture. Peel off few inches of release liner.

Method Apply exactly the first time, Attempt to remove may damage tape and roofing. Press down firmly assuring conformity with surface while working out and removing buckles and bubbles. Remove textured, yellow protective carrier film from top of membrane.

Temperature 35°F to 110°F

STORAGE

Temperature 30°F to 110°F

Shelf Life 24 Months

Flammability Non-flammable
(Contains no Asbestos, CFC or PCB)

PRECAUTIONS

Surfaces must be clean and free of moisture and contamination. Do not apply this product where temperatures will exceed 200°F. Do not stretch this product during application. Keep out of the reach of children. Review MSDS for safety information prior to use. DO NOT use where acidic or alkaline chemicals are present (ie., lab fume hood, vents, etc.)

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CRT-1602

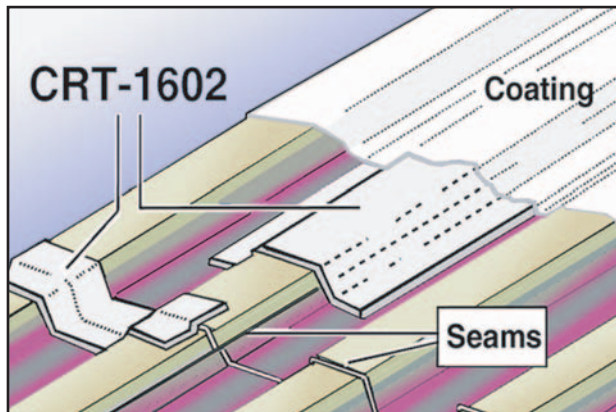
CRT-1602

Coating-Ready Seam Sealing Tape

CRT-1602 is a polyester fabric-backed seam sealing tape for sealing seams on metal roofs before coating. CRT-1602 has an aggressive grip, stays flexible during application, assuring immediate sealing on contact, and superior long-term adhesion. It also provides up to 50% savings over traditional metal seam sealing costs. CRT-1602's pressure sensitive properties allow a fast, clean and easy application.

TECHNICAL DATA

Appearance	Grayish-White Fabric
Bonding Time	Immediate Water Tight Aggressive Grip (Full bond within 24 hours)
Thickness	.25 mils
Backing	DuPont Sontara® Fabric
Adhesive	THE GRAY MATTER™ Elastomeric Modified Butyl Rubber
Operating Temperature	-20°F to 200°F
Low Temperature Flexibility	Passes, no cracking
Tensile Strength	.790 psi avg.
Peel Strength	.17 lbs. per linear inch
Water Resistance	Excellent (Surface must be clean and dry before application)
Fluid Absorbtion	Excellent for coatings (Fabric made of wood pulp and spun polyester)



CRT-1602 PART NUMBERS

1 Case w/ (24) 2" x 50' Rolls	304086
1 Case w/ (16) 3" x 50' Rolls	304087
1 Case w/ (12) 4" x 50' Rolls	304088
1 Case w/ (8) 6" x 50' Rolls	300489

APPLICATION

Preparation	Clean surface - Remove dust, dirt, oil and moisture. Peel off few inches of release liner.
Method	Apply exactly the first time, attempt to remove may damage tape and roofing. DO NOT STRETCH. Press down firmly starting at center and working back toward outside edge, removing bubbles. Edges must have no tunnels, openings, or fishmouths.
Temperature	.35°F to 110°F

STORAGE

Temperature	.30°F to 110°F
Shelf Life	.24 Months
Flammability	.Non-flammable (Contains no Asbestos, CFC or PCB)

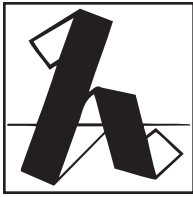
PRECAUTIONS

Surfaces must be clean and free of moisture and contamination. For exposed areas, must coat with elastomeric coating or equivalent. Do not apply this product where temperatures will exceed 200°F. Do not stretch this product during application. Keep out of the reach of children. Review MSDS for safety information prior to use. DO NOT use where acidic or alkaline chemicals are present (ie., lab fume hood, vents, etc.)

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BRT-801

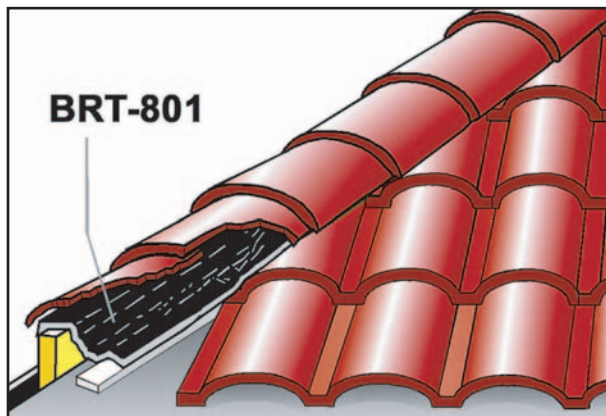
BRT-801

Black Hip & Ridge Sealing Tape

BRT-801 is a black, U.V. resistance hip and ridge sealant for under tile and roof applications. BRT-801 has an aggressive grip, stays flexible during application, assuring immediate sealing on contact, and superior long-term adhesion. Providing leakproof results, this butyl adhesive/sealant is asphalt and solvent free. BRT-801 is also reversed-rolled for easy, fast application.

TECHNICAL DATA

Appearance	Black, Non-Gloss, Polyethylene Tape
Bonding Time	Immediate Water Tight Aggressive Grip (Full bond within 24 hours)
Thickness	.30 mils
Backing	High Density, U.V. Resistant Polyethylene
Adhesive	THE GRAY MATTER™ Elastomeric Modified Butyl Rubber
Operating Temperature	-20°F to 200°F
Low Temperature Flexibility	Passes, no cracking
Tensile Strength	.445 psi avg.
Peel Strength	.17 lbs. per linear inch
Water Resistance	Excellent (Surface must be clean and dry before application)
U.V. Resistance	Excellent



BRT-801 PART NUMBERS

1 Case w/ (8) 6" x 50' Rolls	304185
1 Case w/ (6) 9" x 50' Rolls	304186
1 Case w/ (6) 12" x 50' Rolls	304181

APPLICATION

Preparation	Clean surface - Remove dust, dirt, oil and moisture. Peel off few inches of release liner.
Method	Apply exactly the first time, removal may damage tape and roof. Center tape on ridge board. First guide tape to lowest part of tile or shingle. DO NOT STRETCH. Press down firmly starting at lowest or most outside edge workin back toward center of tape, removing bubbles. Edges must have no openings, tunnels, fishmouths.
Temperature	.35°F to 110°F

STORAGE

Temperature	.30°F to 110°F
Shelf Life	.24 Months (Unopened)
Flammability	.Non-flammable (Contains no Asbestos, CFC or PCB)

PRECAUTIONS

Surfaces must be clean and free of moisture and contamination. Do not apply this product where temperatures will exceed 200°F. Do not stretch this product during application. Keep out of the reach of children. Review MSDS for safety information prior to use. **DO NOT** use where acidic or alkaline chemicals are present (ie., lab fume hood, vents, etc.)

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SHEET METAL SCREWS

Hardcast Hardware

LASERS

Lasers are time-proven labor savers. In use for many years, Lasers are available with standard hex-washer head with undercut and with pan-socket head.

The non-walking "twinfast" threads terminate in a super sharp point, which easily penetrates two pieces of 22 gauge metal.



Part#	Product Description	Qty.
308183	LASERS HEX HEAD #8 X 1/2" 1,000 (SLT - 8X1/2)	1,000/Case
308185	LASERS HEX HEAD #8 X 3/4" 1,000 (SLT - 8X3/4)	1,000/Case
308181	LASERS HEX HEAD #8 X 1/2" 10,000 (SLB - 8X1/2)	10,000/Case
308182	LASERS HEX HEAD #8 X 3/4" 10,000 (SLB - 8X3/4)	10,000/Case

TECHS

Tech Screws drill and tap into heavy gauge applications such as fastening 16 gauge metal to 1/8" or heavier angles. The forged drill point combined with the special threads eliminates the need for center punching or pre-drilling holes. Penetration is quick and the assembly is secure.



Part#	Product Description	Qty.
308191	TECHS HEX HEAD #8 X 1/2" 1,000 (SPT - 8X1/2)	1,000/Case
308193	TECHS HEX HEAD #8 X 3/4" 1,000 (SPT - 8X3/4)	1,000/Case
308195	TECHS HEX HEAD #10 X 1/2" 1,000 (SPT - 10X1/2)	1,000/Case
308197	TECHS HEX HEAD #10 X 3/4" 1,000 (SPT - 10X3/4)	1,000/Case
308187	TECHS HEX HEAD #8 X 1/2" 10,000 (SPB - 8X1/2)	10,000/Case
308188	TECHS HEX HEAD #8 X 3/4" 10,000 (SPB - 8X3/4)	10,000/Case
308189	TECHS HEX HEAD #10 X 1/2" 10,000 (SPB - 10X1/2)	10,000/Case
308190	TECHS HEX HEAD #10 X 3/4" 6,000 (SPB - 10X3/4)	6,000/Case

CHUCKS



Part#	Product Description	Qty.
308199	CHUCK 1/4" HEX DRIVER (HC-14)	12/Case



Part#	Product Description	Qty.
308201	CHUCK 5/16" HEX DRIVER (HC-516)	12/Case