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ORIGINAL HARDCAST TWO PART II DUCT SEALING SYSTEM



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TWO PART II SEALING SYSTEM™

DT-Tape with RTA-50 (INDOOR/OUTDOOR)

The Original Indoor/Outdoor Duct Sealing System

TWO PART II is Hardcast's original mineral-gypsum-compound-impregnated fibertape and liquid sealant duct joint sealer. The industry standard two part system for sealing low, medium and high pressure duct systems.

TECHNICAL DATA INSTALLED WITH DT-TAPE

RTA-50 SEALANT

Bonding Time	48 Hrs.*
Service Temperatures	0°F to 200°F
Surface Burning (When tested in accordance with ASTM E-84)	
Flame Spread	0
Smoke Developed	0
Weather QUV	Passed 1000 hrs QUV
Pressure Classes	1/2, 1, 2, 3, 4, 6, 10 inches w.g.
Seal Classes	All SMACNA Classes
Mildew Resistance	Mold & Mildew Resistant
Flexibility	Excellent
Freeze/Thaw Stability	Passed 5 cycles (Stir before use)
VOC (Less Water)	135 GPL

* May vary according to temperature and humidity

City of Los Angeles Approval RR#8069

DT-TAPE

Appearance -----	White Impregnated Fiber Tape
Packaging -----	150 ft. rolls in widths of:
DT 5300-----	3" - 12 rolls per case
DT 5400 -----	4" - 12 rolls per case

Two Part II SEALANT DISPENSER

Appearance	Combined tape roll holder / dispenser; pail mounted design.
Construction	Custom designed, high impact polyethylene
Capacities Tape	150 ft./roll of 3" or 4" DT Tape



TWO PART II PART NUMBERS

RTA-50: 1 Case w/ (4) 1-Gallon Pails.....	304168
DT-5300: 1 Case w/ (12) 3" x 150' Rolls.....	304164
DT-5400: 1 Case w/ (12) 4" x 150' Rolls.....	304165
2 Part II Dispenser: 1 Unit	304286

APPLICATION

*Apply to outer surface of duct joint only
(After duct is installed)*

Temperature	35°F to 110°F
Method	Use 2 Part II Dispenser or brush. Wrap wet tape around duct joint, smoothing out wrinkles or bubbles.
Preparation	Surface must be dry, dirt, oil, and grease free.
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

Temperature	35°F to 110°F-DO NOT FREEZE
Shelf Life	RTA 50 = One year (Unopened) DT-Tape = Not Applicable

PRECAUTIONS

Surfaces must be clean and free of moisture, contamination and foreign matter. Do not apply when rain or freezing temperatures will occur within 72 hours. Do not apply where temperatures will exceed 200°F. Store DT Tape in DRY ATMOSPHERE. 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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Fax: (514) 639-5252
Web site: www.dynair.ca

TWO PART II SEALING SYSTEM™

APPLICATION INSTRUCTIONS

RTA-50 (Indoor/Outdoor) is specifically designed for use in conjunction with HARDCAST DT-5300, DT-5400, and DT-6100 pressure-less tape. It is recommended for application to sheetmetal ductwork.

1. HARDCAST recommends the use of our Two Part II Dispenser. When using the dispenser, the bottom guide roller is submerged in the sealant. The coating control roller should be adjusted to apply a liberal coating of adhesive on the tape as it emerges from the dispenser. Only DT-5300 and DT-5400 will fit the Two Part II Dispenser.
2. Pull the tape slowly through the dispenser so that it can absorb sufficient sealant and cut to the desired length. The easiest sizes to handle are 12" to 18" lengths which can be overlapped on each other to form a continuous band around the duct.
3. Apply the tape to duct joint with the heavier coated side down and press firmly to ensure total contact with duct surface. Work out any air bubbles entrapped under tape. Apply tape to surface immediately after coating with sealant.
4. Apply a top coat of RTA-50 sealant over the tape with a brush.
5. IF A TWO PART II DISPENSER IS NOT AVAILABLE, THE TAPE CAN BE APPLIED USING THE FOLLOWING METHOD:

Cut the tape to the desired (manageable) length and place it on a flat surface. Using a paintbrush apply sealant directly to both sides of the tape then apply tape to duct joint.
6. Allow a minimum of **72 HOURS** drying time before turning on the system (on interior duct only).
7. After the sealant has dried a minimum of **72 HOURS**, on exterior duct apply an additional coat of RTA-50 to tape surface. Drying time may take longer depending on temperature and relative humidity conditions.
8. Coverage: Approximately 1 gallon RTA-50 per two 3" X 150' rolls of DT-Tape.

CAUTION: Surface must be clean and free of moisture, contamination and foreign matter for best results. Do not apply when rain or freezing temperatures will occur within 72 hours. Use only latex or epoxy based paints to cover Hardcast products.

CAUTION: If product freezes, return to room temperature and stir before use.

LEAKAGE TEST: Use smoke method only. Do not use soap and water for test.

FOR SPECIAL APPLICATIONS CONTACT HARDCAST

RTA-50 LIQUID SEALANT

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.

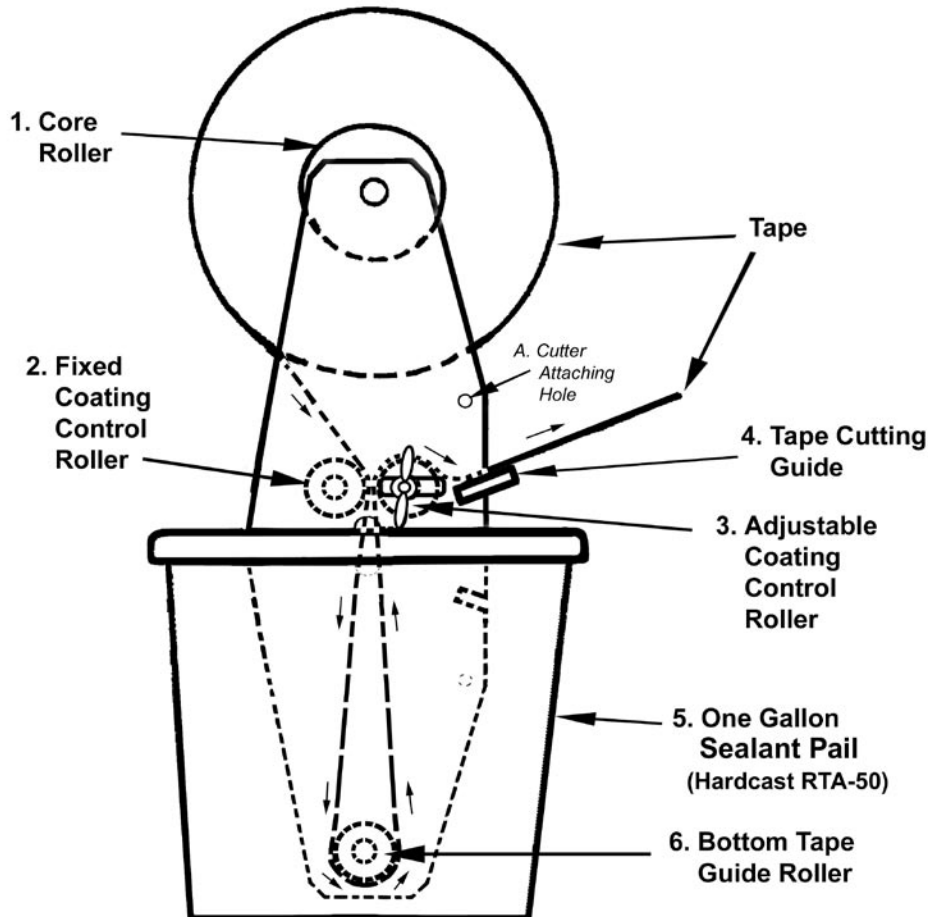
REVIEW MATERIAL SAFETY DATA SHEET FOR COMPLETE SAFETY INFORMATION PRIOR TO USE.
CONTAINS: ETHYLENE GLYCOL

FOR INDUSTRIAL USE ONLY.
MAY NOT BE REPACKAGED OR SOLD FOR OTHER THAN INDUSTRIAL OR PROFESSIONAL USE.

KEEP OUT OF REACH OF CHILDREN

TWO PART II SEALING SYSTEM™

The original, classic Hardcast DT Tape and sealant system invented by Hardcast now comes in this new, easy to use system. The original tape is now in 150 foot lengths to fit this dispenser. The RTA-50 liquid sealant is available in 1 gallon pails. The combination offers the same superior seam/joint sealing used for almost 40 years in an easy to use, easy to maintain dispenser. Save time and money and still get the best duct seal ever invented, just follow these instructions.



A. Remove Core Roller (1) by slightly pulling on the sides of the holder/frame. Insert the Roller into a roll of Hardcast DT Tape. Replace the Roller with the Tape into the holder/frame.

B. Guide the leading edge of the tape down, between the the Fixed Coating Control Roller (2) and the Adjustable Coating Control Roller (3). Pull the tape under and around the Bottom Tape Guide Roller (6).

C. Pull the tape up and guide it back through the two Coating Control Rollers (2) & (3) and over the Adjustable Coating Control Roller (3).

D. Pull the tape through the the holder/frame towards and over the Tape Cutting Guide (4).

E. Remove the lid from the Hardcast RTA-50 sealant pail. Place the assembled Tape and Dispenser in place of the lid and press the rim firmly to lock it to the pail.

F. Adjust the amount of sealant applied to the tape by loosening the wing nuts of the Adjustable Coating Control Roller (3) and moving it towards the Fixed Coating Control Roller (2) until the tape is pressed against itself to create a squeegee effect. Move the Adjustable Roller (3) away from (2) to leave more sealant on the tape. Tighten the wing nuts when adjusted as desired.

G. Pull the amount of tape needed and cut with a razor cutter using the Tape Cutting Guide (4) or use scissors.

H. Apply the sealant/coated tape over the duct joint. Overlap the ends of the tape and squeeze out air bubbles. Allow to cure as directed on the sealant label.

I. When not in use, remove the Tape and Dispenser assembly from the pail. Close it tightly with it's lid. Cut the tape where it is dry, use or discard the wet tape. Clean the Dispenser with water.



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
	17NF
	UL 181B-M

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.

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

DO NOT 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:



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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 accomodate 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

CLASSIFIED
UL US
C

CAULKING AND SEALANTS
94PF
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

FLEX-GRIP 550 PART NUMBERS

1 Case w/ (25) 11 oz. Cartridges	304134
1 Case w/ (4) 1-Gallon Pails	304132

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 DO NOT 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.

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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

*May vary according to temperature and humidity

CLASSIFIED
 **CAULKING AND SEALANTS**
 94PF
US 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.

 **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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Web site: www.dynair.ca



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

FLAME SPREAD..... 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.

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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

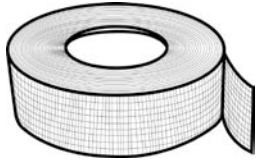
FLAMMABLE liquid and vapor. Keep away from open flame. May cause flash fire. Contains heptane and toluene solvents. Harmful if swallowed or inhaled. May cause eye irritation. Do not apply in weather exposed areas, or where temperatures will exceed 200°F . Keep out of the reach of children. Review Material 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:



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Web site: www.dynair.ca



AB-151 Scrim

AB-151

HVAC/Construction Scrim

AB-15-Scrim is an all purpose self-adhering fiberglass ductwork scrim primarily used for temporary fixation of ductwork prior to sealant application. For use with UL 181 Listed applications.

TECHNICAL DATA

Average net weight	1.6 (oz./yd ²)
Cross directional strength	104.8 (lbs./in.)
Treatment % on fabric	22.5%
Thread Count (per inch of width)	
Warp threads	9
Filling threads	9
Thickness007 in.
Packaging	3" X 150'; 10 rolls per case

AB-151 Scrim PART NUMBER

1 Case w/ (10) 3" x 150' Rolls 307274

APPLICATION

Temperature	35°F to 110°F (1.7°C to 44°C)
Method	Cut desired length, peel off release liner, apply. Overlap at ends. Rub down with heavy pressure to assure complete contact.
Preparation	Surface must be clean and dry, oil and grease free.
Clean Up	UNN-GRIP™ 798-ES or Solvent (Use safe handling practices.)
Painting	Use paint appropriate for aluminum.

STORAGE

Temperature	35°F to 110°F (1.7°C to 44°C)
Shelf Life	24 months
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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SPRAY-SEAL™

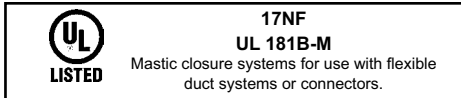
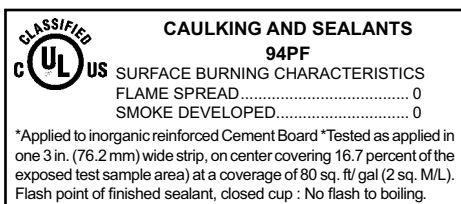
Indoor/Outdoor Water Based Duct Sealant

SPRAY-SEAL is an **all purpose 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, **SPRAY-SEAL stays flexible to save call-back labor.** SPRAY-SEAL's **excellent coverage rate** and **easy spray application** provide **low installed cost** while providing Hardcast's **proven reliability.**

TECHNICAL DATA

Color	Gray
Consistency	Spray Grade
Base	Synthetic latex
Solvent	Water
Weight per Gallon	11.0 lbs.
Solids Content	67% +/- 2
Viscosity	>100K cps
Coverage (per gal.)	Up to 320 lin. ft. at 3" width, 20 mil thickness
Flexibility	Passes ¼ in. mandrel bend
Time to Test	48 hours*
Service Temperature	-20°F to 200°F
Water Resistance	Excellent
Mildew Resistance	Mold & Mildew resistant
VOC	52 g/l
Pressure Classes	SMACNA ½, 1, 2, 3, 4, 6 and 10 inches w.g.
Seal Classes	SMACNA A, B, C
Packaging	5, & 55 gallon pails.
Freeze/Thaw Stability	Passed 5 Cycles
Specifications Compliance	Passes ASTM C-731, ASTM D-2202. USDA, EPA and FDA Approved. LEED compliant SCAQMD Rule 1168.

*May vary according to temperature and humidity



City of Los Angeles Approval RR#8069

SPRAY-SEAL PART NUMBERS

1 - 5-Gallon Pail	304133
1 - 55-Gallon Drum	305437

APPLICATION

Temperature	Minimum 40°F (4.4°C)
Method	For spray, use Hardcast Sealant Delivery System
Preparation	Surface must be dry, dirt, oil, and grease free.
Rate	Apply at joints and fasteners 20-30 mil thick wet film
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) DO NOT FREEZE
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 36-48 hours, depending on temperature and humidity. 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:



DYNAIR, Division Carlisle Canada
2100 Remembrance Road,
Lachine, Québec, H8S 1X3
Telephone: (514) 639-1616
Toll free: 1 (800) 544-5535
Fax: (514) 639-5252
Web site: www.dynair.ca



ALUMA-GRIP™ 701

AFT-701

Premium Indoor/Outdoor Duct Sealing Rolled Sealant

ALUMA-GRIP is a **HEAVY DUTY** pressure sensitive, 40-year cycle, duct joint rolled sealant. ALUMA-GRIP provides an aggressive water resistant grip to most surfaces including sheet metal, duct board, flex duct, PVC coated duct, and duct wrap vapor barriers. ALUMA-GRIP is suitable for subgrade application on PVC coated duct.

TECHNICAL DATA

Appearance	Mill finish aluminum substrate with gray adhesive/sealant
Backing	Aluminum
Thickness	30 mils
Sealant Material	Modified Butyl
Peel Strength	17 lbs. per linear inch
Tensile Strength	720 psi avg.
Elongation	560% avg.
Flexibility	Excellent, no cracking
Bonding Time	Instant high tack, full bond 24 hours
Time to test	Immediate
Service Temperature	-20°F to 200°F
Surface Burning	Flame Spread: 25 Smoke Developed:..... 50 <small>(When tested in accordance with ASTM E-84)</small>
Weather Resistance	Passes 2000 hours QUV <small>(When tested in accordance with ASTM G-53)</small>
Mildew Resistance	Mold and mildew resistant
VOC	0 g/l
Pressure Classes	SMACNA 1/2, 1, 2, 3, 4, 6 and 10 inches w.g.
Seal Classes	SMACNA A, B, C
Packaging	50 ft. rolls in 2, 3, 4, 6, 9, 12 inch widths. 200 sq. ft. per case (150 sq. ft. for 9 inch)

ALUMA-GRIP 701 PART NUMBERS

1 Case w/ (24) 2" x 50' Rolls	304078
1 Case w/ (16) 3" x 50' Rolls	304079
1 Case w/ (12) 4" x 50' Rolls	304080
1 Case w/ (8) 6" x 50' Rolls	304081
1 Case w/ (4) 9" x 50' Rolls	304082
1 Case w/ (4) 12" x 50' Rolls	304077

APPLICATION

Temperature	35°F to 110°F
Method	Cut desired length, peel off release liner, and apply. Removal or repositioning may damage AFT-701 and surface. Overlap at ends. Rub down with heavy pressure to assure complete contact.
Preparation	Surface must be clean and dry, oil and grease free.
Clean Up	UNN-GRIP™ 798-ES or Solvent (Use safe handling practices.)
Painting	Use paint appropriate for aluminum.

STORAGE

Temperature	35°F to 110°F
Shelf Life	24 months
Flammability	Non-flammable

PRECAUTIONS

Surfaces must be clean and free of moisture and contamination. Do not apply this product in areas where temperatures will exceed 200°F. 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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FOIL-GRIP™ 1402

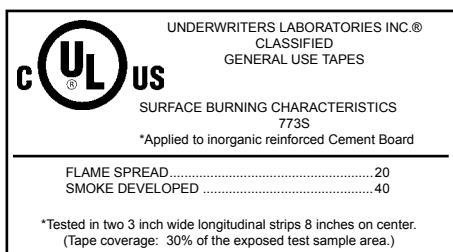
AFG-1402

Indoor/Outdoor Duct Sealing Rolled Sealant

FOIL-GRIP 1402 is a pressure sensitive, 40-year cycle, duct joint and general purpose rolled sealant. FOIL-GRIP provides an instant water resistant grip to most surfaces including sheet metal, duct board, flex duct, PVC coated duct, and duct wrap vapor barriers. FOIL-GRIP 1402 is suitable for subgrade application on PVC coated duct.

TECHNICAL DATA

Appearance	Mill finish aluminum substrate with gray adhesive/sealant
Backing	Aluminum
Thickness	17 mils
Sealant Material	Modified Butyl
Peel Strength	16 lbs. per linear inch
Tensile Strength	955 psi avg.
Elongation	560% avg.
Flexibility	Excellent, no cracking
Bonding Time	Instant high tack, full bond 24 hours
Time to test	Immediate
Service Temperature	-20°F to 200°F
Weather Resistance	Passes 2000 hours QUV (When tested in accordance with ASTM G-53)
Mildew Resistance	Mold and mildew resistant
VOC	0 g/l
Pressure Classes	SMACNA 1/2, 1, 2, 3, 4, & 6 inches w.g.
Seal Classes	SMACNA A, B, C
Packaging	100 ft. rolls in 2, 3, 4 & 6 inch widths 400 sq. ft. per case



City of Los Angeles Approval RR #8069

FOIL-GRIP 1402 PART NUMBERS

1 Case w/ (24) 2" x 50' Rolls (Non-Printed).....	304093
1 Case w/ (16) 3" x 50' Rolls (Non-Printed).....	304094
1 Case w/ (12) 4" x 50' Rolls (Non-Printed).....	304095
1 Case w/ (8) 6" x 50' Rolls (Non-Printed).....	304096
1 Case w/ (24) 2" x 50' Rolls (Printed).....	304099
1 Case w/ (16) 3" x 50' Rolls (Printed).....	304100

APPLICATION

Temperature	35°F to 110°F (1.7°C to 44°C)
Method	Cut desired length, peel off release liner, apply. Removal or repositioning may damage AFG-1402 and surface. Overlap at ends. Rub down with heavy pressure to assure complete contact.
Preparation	Surface must be clean, dry, oil and grease free
Clean Up	UNN-GRIP™ 798-ES or Solvent (Use safe handling practices.)
Painting	Use paint appropriate for aluminum.

STORAGE

Temperature	35°F to 110°F (1.7°C to 44°C)
Shelf Life	24 months
Flammability	Non-flammable

PRECAUTIONS

Surfaces must be clean and free of moisture and contamination. Do not apply this product in areas where temperatures will exceed 200°F. 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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FOIL-GRIP™ 1403-181BFX

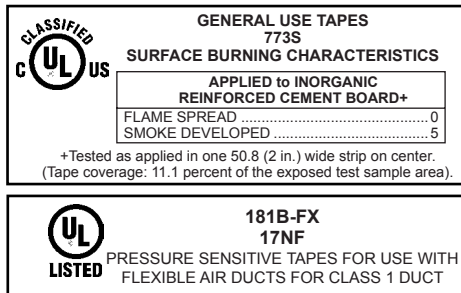


Indoor/Outdoor Duct Sealing Rolled Sealant

FOIL-GRIP 1403-181BFX is a UL 181B-FX listed pressure sensitive, 40-year cycle, duct joint and general purpose rolled sealant. FOIL-GRIP 1403-181BFX provides an instant water resistant grip to most surfaces including sheet metal, duct board, flex duct, PVC coated duct, and duct wrap vapor barriers. FOIL-GRIP 1403-181BFX is suitable for subgrade application on PVC coated duct.

TECHNICAL DATA

Appearance	Mill finish aluminum substrate with butyl adhesive/sealant
Backing	Aluminum
Thickness	17 mils
Sealant Material	Modified Butyl
Peel Strength	7 lbs. per linear inch
Tensile Strength	20 pli/1400 psi avg.
Flexibility	Excellent, no cracking
Bonding Time	Instant high tack, full bond 24 hours
Time to Test	Immediate
Service Temperature	-20°F. to 200°F.
Weather Resistance	Passes 2000 hours QUV <i>(When tested in accordance with ASTM G-53)</i>
Mildew Resistance	Mold and mildew resistant
VOC	0 g/l
Pressure Classes	SMACNA 1/2, 1, 2, 3, 4, & 6 in. w.g.
Seal Classes	SMACNA A, B, C
Packaging	100 ft. rolls in 2 & 3 inch widths; 400 sq. ft. per case.



FOIL-GRIP 1403-181BFX PART NUMBERS

1 Case w/ (24) 2" x 100' Rolls	309781
1 Case w/ (16) 3" x 100' Rolls	309780

APPLICATION

Temperature	35°F. to 110°F. (1.7°C. to 44°C.)
Method	Cut desired length, peel off release liner, apply. <i>Removal or repositioning may damage FOIL-GRIP 1403-181BFX and surface.</i> Overlap at ends. Rub down with adequate pressure to assure complete contact.
Preparation	Surface must be clean and dry, oil and grease free.
Clean Up	UN-TACK™ or Solvent (Use safe handling practices.)
Painting	Use paint appropriate for aluminum.

STORAGE

Temperature	35°F. to 110°F. (1.7°C. to 44°C.)
Shelf Life	24 months
Flammability	Non-flammable

PRECAUTIONS

Surfaces must be clean and free of moisture and contamination. Do not apply this product in areas where temperatures will exceed 200°F. 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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ALL-PURPOSE™ 1602

AP-1602

All Purpose Duct Sealing Rolled Sealant

ALL-PURPOSE is a pressure sensitive, 30-year cycle, duct joint and general purpose rolled sealant. ALL-PURPOSE provides an instant aggressive grip to most surfaces including sheet metal, duct board, and flex duct for indoor applications. The GRAY MATTER™ butyl adhesive/sealant is a 100% solids sealant, which stays flexible and does not release from the substrate.

TECHNICAL DATA

Appearance	White fabric substrate with gray adhesive/sealant
Backing	DuPont Sontara® polyester
Thickness	25 mils
Sealant Material	Modified Butyl
Peel Strength	17 lbs. per linear inch
Tensile Strength	790 psi avg.
Elongation	560% avg.
Flexibility	Excellent, no cracking
Bonding Time	Immediate aggressive grip, full bond 24 hours
Time to test	Immediate
Service Temperature	-20°F to 200°F
Surface Burning	Flame Spread: 15 Smoke Developed: 15 (When tested in accordance with ASTM E-84)
Water Resistance	Excellent. Surface must be dry before application
Mildew Resistance	Mold and mildew resistant.
VOC	0 g/l
Pressure Classes	SMACNA 1/2, 1, 2, 3, 4 and 6 inches w.g.
Seal Classes	SMACNA A, B, C
Packaging	50 ft. rolls in 2, 3, 4, 6 & 12 inch widths. 200 sq. ft. per case.

ALL-PURPOSE 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	304089
1 Case w/ (4) 12" x 50' Rolls	304085

APPLICATION

Temperature	35°F to 110°F
Method	Cut desired length, peel off release liner, and apply. (Removal or repositioning may damage AP-1602 and surface.) Overlap at ends. Rub down with heavy pressure to assure complete contact.
Preparation	Surface must be clean and dry, oil and grease free.
Clean Up	UNN-GRIP™ 798-ES or Solvent (Use safe handling practices.)
Painting	Use epoxy or water based paint or coating. Use weatherized paint when applied on exterior surfaces.

STORAGE

Temperature	35°F to 110°F
Shelf Life	24 months

PRECAUTIONS

Surfaces must be clean and free of moisture and contamination. Do not apply this product in weather exposed area without suitable paint or coating. Do not apply this product where temperatures will exceed 200° F. 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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#1104 BUTYL SEALANT TAPE

DESCRIPTION : #1104 Sealer is a gray, black or off-white permanently soft caulking compound which contains a high percentage of virgin butyl rubber to enhance its sealing properties and aging characteristics. #1104 Sealer is formulated to retain low temperature handling properties at elevated temperatures. #1104 Sealer will adhere to most clean, dry surfaces such as steel, galvanized metal, aluminum, plastic materials, wood, and concrete.

FEATURES AND BENEFITS

- FDA Approved: As listed in CFR, Title 21, being composed of ingredients acceptable for packaging and transporting food.
- U.S.D.A. Acceptable: Chemically acceptable to the U.S.D.A. for use in meat and poultry processing areas under Federal Inspection.
- Non-irritant: No limitation to eyes or skin as listed in CFR, Title 16, "Appraisal of the safety of chemicals in food, drugs, and cosmetics".
- Chemical Resistance: Excellent resistance to water,

alcohols, mild acids and bases.

- Paintability: Yes.
- Vehicle Bleedout: None
- Non-Corrosive: Will not corrode Metals.
- Flexibility: No cracking at -20° F.
- Shelf Life: One year minimum



UNDERWRITERS LABORATORIES, INC.
 CLASSIFIED
 GENERAL USE TAPES
 SURFACE BURNING CHARACTERISTICS
 Flame Spread 5
 Smoke Developed 5
 23N3

USES:

#1104 Sealer is used in tape and bead form to provide a moisture and vapor tight seal to exclude water and dust from any given area under atmospheric pressure. #1104 Sealer is an excellent sealant for the metal building trade, window glazing industry, refrigeration industry, as well as many others.

Properties Test	Method	Value
Weight/Gallon	ASTM D71 - 72	12.7 lbs. / gallon (approximate)
Appearance		Gray, Black, or Off-White
Cone penetration	ASTM D217-52T	Modified to total moving load of 300 gm., 5 sec @ 77° F; 80-90 mm/10.
Web elongation		600 to 700%
Adhesive tensile strength		10 to 12 psi
Temperature tolerance range	-40° F to +249° F	Will not slump at +280°F
Temperature usage range	0° F to +100° F	Recommended

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FLANGE GASKET A1104
 (20) 25 FT RLS1 304271



SPRAY-SEAL™

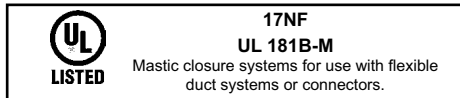
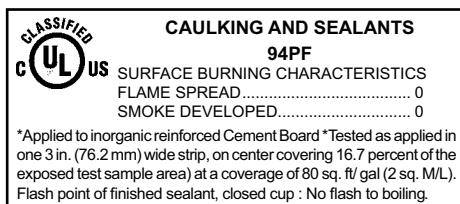
Indoor/Outdoor Water Based Duct Sealant

SPRAY-SEAL is an **all purpose 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, **SPRAY-SEAL stays flexible to save call-back labor.** SPRAY-SEAL's **excellent coverage rate** and **easy spray application** provide **low installed cost** while providing Hardcast's **proven reliability.**

TECHNICAL DATA

Color.....	Gray
Consistency.....	Spray Grade
Base.....	Synthetic latex
Solvent.....	Water
Weight per Gallon.....	11.0 lbs.
Solids Content.....	67% +/- 2
Viscosity.....	>100K cps
Coverage (per gal.).....	Up to 320 lin. ft. at 3" width, 20 mil thickness
Flexibility.....	Passes ¼ in. mandrel bend
Time to Test.....	48 hours*
Service Temperature.....	-20°F to 200°F
Water Resistance.....	Excellent
Mildew Resistance.....	Mold & Mildew resistant
VOC.....	52 g/l
Pressure Classes.....	SMACNA ½, 1, 2, 3, 4, 6 and 10 inches w.g.
Seal Classes.....	SMACNA A, B, C
Packaging.....	5, & 55 gallon pails.
Freeze/Thaw Stability.....	Passed 5 Cycles
Specifications Compliance.....	Passes ASTM C-731, ASTM D-2202. USDA, EPA and FDA Approved. LEED compliant SCAQMD Rule 1168.

*May vary according to temperature and humidity



City of Los Angeles Approval RR#8069

SPRAY-SEAL PART NUMBERS

1 - 5-Gallon Pail.....	304133
1 - 55-Gallon Drum.....	305437

APPLICATION

Temperature.....	Minimum 40°F (4.4°C)
Method.....	For spray, use Hardcast Sealant Delivery System
Preparation.....	Surface must be dry, dirt, oil, and grease free.
Rate.....	Apply at joints and fasteners 20-30 mil thick wet film
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) DO NOT FREEZE
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 36-48 hours, depending on temperature and humidity. 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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Silicone Sealants

Hardcast is pleased to announce new silicone sealant products called **Silimax[®]** and **XIAMETER[®]**. These silicones are replacing the TYTAN[™] silicone sealants. During this transition, as the inventory of TYTAN is depleted, Silimax and XIAMETER silicones will be phased in.

Silimax will replace TYTAN Multi Purpose and XIAMETER will replace TYTAN High Temperature formula. Consult the chart below for SAP Part Numbers and Pricing.
NOTE: Part Numbers remain the same

Discontinued Product		Replacement Product	
Part Number	Product Description	Part Number	Product Description
309980	TYTAN Multi Purpose Aluminum	309980	Silimax 10.1 fl. oz. Cartridge - Aluminum
309981	TYTAN Multi Purpose White	309981	Silimax 10.1 fl. oz. Cartridge - White
309982	TYTAN Multi Purpose Clear	309982	Silimax 10.1 oz. Cartridge - Clear
309983	TYTAN High Temp Red	309983	XIAMETER 10.1 fl. oz. Cartridge - Red



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Technical Data Sheet

SILIMAX 100%

Description

Silimax 100% silicone sealant is a non-slump, paste like, one component RTV, designed for a wide variety of industrial sealing and adhesives applications. It cures at room temperature by reaction with moisture in the air to produce a durable, flexible silicone rubber.

Key Features

- Fast curing
- Easy to apply
- Resistant to sunlight, rain, sleet, snow, ozone and temperature extremes
- Excellent adhesion to most non porous surfaces without primer
- Excellent UV resistance
- Retains design properties even after years of exposure – seals remain watertight and weatherproof.
- Meets FDA Reg 21 CFR177.2600 and NSF Standard 51

Uses

- Space-filling rubber adhesive
- Formed-in-place gaskets
- For kitchens and bathrooms
- To seal assemblies of glass, glazed surfaces, porcelain coated metal, epoxy and polyester panels, polystyrene, uPVC, stainless steel, anodized aluminum and finished wood
- Various O.E.M./Industrial Applications

Substrates Preparation

The substrates to be assembled must be clean, dry, dust free and not have any traces of grease or other contaminants that could adversely affect the bonding performance.

If the substrates need to be cleaned, methyl ethyl ketone (MEK) type solvents may be used or isopropyl alcohol.

Check the compatibility of the solvent with the substrates.

Note: When using solvents, keep away from all sources of ignition and carefully follow the safety and the handling instructions given by the manufacturer or supplier of this type of product.

Directions

1. Clip off tip spout @ a 45 degree angle to desired size.
2. Load cartridge into caulking gun & apply using steady, even pressure to completely bridge joints.
3. Smooth sealant using wet finger or a damp cloth for a neat appearance.
4. Wipe away excess with a damp cloth before surface skin over.

Clean Up

Tools be cleaned with MEK before curing. After cure, mechanical cleaning is required

For Best Results

- Apply at a temperature between +5°C and +40°C (41°F and 104°F).
- Store sealant in temperatures between +5°C and +25°C (41°F and 77°F).
- For a neat , straight bead edge, mask both sides of joint with tape, removing masking tape before skin formation
- Do not “overtool” the applied sealant, leaving too little sealant to perform following cure

Colors

Clear, white, aluminum

Packaging

10.1 fl. oz. (300 ml) HDPE cartridges

Limitations

- Apply only to clean, dry substrates
- Cooler weather will slow down cure time
- Storage at +5°C (41°F) and +25°C (77°F) and 50% R.H. higher temperatures and humidity will be decrease shelf life
- Not paintable
- Not recommended for application on concrete, marble, lead, copper, galvanized steel and not for PE, PP, Teflon and bituminous surfaces.



Technical Data Sheet

SILIMAX 100%

Technical Datas

<u>Physical/Performance Property</u>	<u>Typical Result</u>
Basis	Acetoxo
Application Temperature	+5 / + 40 °C (41 to 104 °F)
Application Rate	250 - 500 g/min
Slump (ISO 7390)	0 mm
Density	1.02 – 1.06 g/ml
Skin Over Time	10 - 20 min
Tooling time	5 – 10 min
Frost resistant till -15°C(5°F)	yes (during transport)
Shelf life	12 month between +5°C (41°F) and 25°C (77°F)
Joint movement capability	+/- 25 %
Temperature resistance	-60 to + 177 °C (-76 to 350 °F) with intermittent temperatures up to 200°C (392°C)(after curing)
Shore A Hardness (ASTM D2240)	26 (3 s)
Tear Strenght (ASTM D 624)	3.9 kN/m (22 ppi)
Ultimate Tensile Strength (ASTM D 412)	2.1 MPa (310 psi)
Peel Strenght (ASTM C 794)	3.9 kN/m (22 ppi)

CAUTION: HARMFUL. NOT FOR INTERNAL CONSUMPTION. KEEP OUT OF REACH OF CHILDREN & PETS.KEEP FROM FREEZING. (See MSDS for additional information)

NOTE

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the data of issue of this document and the date the product is acquired.

Before using the product , the user should carry out any necessary tests and trials in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use in they think that the information in their possession needs to be clarified in any way , whether for normal use or a specific application of our product.

Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.

XIAMETER® SLT-5202 Sealant Acetoxy features:

- Resistant to sunlight, rain, sleet, snow, ultraviolet radiation, ozone and temperature extremes
- Retains design properties even after years of exposure – seals remain watertight and weatherproof
- Wide temperature range from -60 to 204°C (-76 to 400°F) with intermittent temperatures up to 260°C (500°F)

Sales Specifications

Char. description	Specification
FLOW	<= 0.20 inch
TACK FREE TIME	<= 25 min
DUROMETER-SHORE A	>= 18 Shore A
TENSILE STRENGTH AT BREAK	>= 170 psi
ELONGATION AT BREAK	>= 350.0 %
EXTRUSION RATE	250 - 500 g/min
CALCULATED EXTRUSION RATE	250 - 500 g/min
PEEL STRENGTH-ALUM/STN. STEEL	>= 14 ppi
PEEL STRENGTH-LOW CARB/S.STEEL	>= 14 ppi
NON VOLATILE CONTENT	>= 85.0 %

Remaining shelf life for batch >= 360 Days

Xiameter certifies that this product will meet the above specification requirements until the expiration date of the product, when properly stored in the original, unopened container. Shelf Life expiration date of any specific batch is documented on the Certificate of Analysis.

Test methods are based, when appropriate, on standard methods in ASTM or other compendia, but may not be exactly equivalent. Our methods are available on request.

Legal Disclaimer: The information contained herein is offered in good faith based on research and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information shall not be used in substitution for customer's tests to ensure that XIAMETER(R) products are fully satisfactory for your specific applications. Our sole warranty is that the product will meet its current sales specifications. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. XIAMETER SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY UNLESS XIAMETER PROVIDES YOU WITH A SPECIFIC, DULY SIGNED ENDORSEMENT OF FITNESS FOR USE. XIAMETER DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. SUGGESTIONS OF USE SHOULD NOT BE TAKEN AS INDUCEMENTS TO INFRINGE ANY PARTICULAR PATENT.

BRUSHES

Quality pure bristle brushes for application of sealants and adhesives

Product Description	Qty.
PAINT BRUSH-2" 24/CTN	24/Case



FOR ADDITIONAL INFORMATION CONTACT:



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Memberships and Associations

Hardcast is proud to support the following programs and organizations:

Air Conditioning Contractors of America (ACCA)

American Society for Testing and Materials (ASTM)

**American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
(ASHRAE)**

City of Los Angeles Approval Agency

Heating, Airconditioning & Refrigeration Distdributors International (HARDI)

International Conference of Building Officials (ICBO)

National Association of Purchasing

National Fire Protections Agency (NFPA)

Sheet Metal and Air Conditioning Contractors' National Association (SMACNA)

Society of Protective Coatings and Linings (SPCL)

Tennessee Road Builders Association

U.S. Department of Transportation



HARDCAST PRODUCT MATRIX

n INDICATES RECOMMENDED PRODUCT APPLICATION

CAUTION: USE ONLY LATEX OR EPOXY PAINT TO COVER HARDCAST SEALANTS

	PRODUCT	USE		BASE		PRESSURE CLASSES		RECOMMENDED APPLICATION										
		INDOOR	OUTDOOR	SOLVENT	WATER	PRESSURES 1/2" - 6" wg	PRESSURES 6" - 10" wg	ROUND DUCT	OVAL DUCT	RECTANGULAR DUCT	STAINLESS STEEL DUCT	ALUMINUM DUCT	PVC COATED DUCT	PVC COATED DUCT BELOW GRADE	RIGID/FLEXIBLE	FIBERGLASS DUCT	4 BOLT CONNECTORS	
TWO PART II SEALING SYSTEM	DT-TAPE GYPSUM	n		N/A		n	n	n	n	n	n	n	n	n				
	RTA 50 SEALANT	n	n		n	n	n	n	n	n	n	n	n					
MASTIC DUCT SEALANTS	IRON-GRIP 601 (UL 181 B-M)	n	n		n	n	n	n	n	n								
	FLEX-GRIP 550 (UL 181 B-M)	n	n		n	n	n	n	n	n								
	VERSA-GRIP 181 (UL 181 A-M) (UL 181 B-M)	n	n		n	n	n	n	n	n								n
	VERSA-GRIP 102 (UL 181 A-M) (UL 181 B-M)	n	n		n	n	n	n	n	n								n
	DUCT-SEAL 321 (UL 181 B-M)	n	n		n	n	n	n	n	n								n
	SURE-GRIP 404 (UL 181 B-M)	n		n		n	n	n	n	n	n							
ELASTOMERIC ROLLED SEALANTS	ALUMA-GRIP 701	n	n	N/A		n	n	n	n	n	n	n	n	n	n	n	n	
	FOIL-GRIP 1402	n	n	N/A		n		n		n	n	n	n	n	n	n	n	
	FOIL-GRIP 1402 181BFX (UL 181 B-FX)	n	n	N/A		n		n		n	n	n	n	n	n	n	n	
	ALL-PURPOSE 1602	n		N/A		n		n		n	n	n	n	n	n	n	n	
	1104 BUTYL SEALANT TAPE	n		N/A		n	n	n	n									n
CONSTRUCTION SEALANTS	PT-301 / PT-301 H	n	n	n		N/A		n	n	n								
	PT-302 / PT-302 H	n	n	n		N/A		n	n	n								
	PT-304	n	n	n		N/A		n	n	n								

N/A - Not Applicable