

Pliobond® Special Purpose Contact Adhesives

Traditional and VOC Compliant Formulations

Pliobond provides permanent, flexible bonding and will not get brittle with age. The product resists most acids, gasoline, oil, grease and water.

Traditional formulations employ an MEK solvent and the VOC compliant versions use a blended solvent.

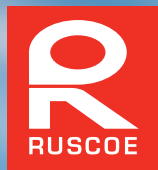
Pliobond 20, 25, 30, and 35 are all purpose, thermosetting contact adhesives with solid contents of pigment reinforced synthetic rubber and synthetic plastic resin. The 20 and 25 versions are most frequently used and contain 20 percent

solids while the 30 and 35 products contain 30 percent solids and form a heavier film with controlled penetration. The latter are most often used on more porous surfaces. The 25, 35 and 45 versions are VOC compliant formulas.

Pliobond 45 consists of 40 percent solids and is available on special orders.

Pliobond HT-30 has the same qualities as Pliobond 30 but it resists higher temperatures while providing permanent flexible bonding. However, it must be heat cured to 300 degrees F.

Proven Professionally—Everyday



**THE RUSCOE
COMPANY**

Adhesives &
Sealants

GENERAL INFORMATION

Many shops and plants with variable production and short runs require a versatile adhesive. For these and for "spot-use" applications, PLIOBOND adhesives simplify warehousing and inventory. They produce strong serviceable joints with most materials. The cement is supplied ready to use and requires no conditioning agents, accelerators, or catalysts.

A single method, called wet bond-

ing, can be used for joining virtually all materials with PLIOBOND.

For wet bond: coat both surfaces, allow to dry to a tack free state, recoat one surface then assemble the parts when tacky. Test before use to ensure compatibility with both adherents.

An initial set takes place in PLIOBOND adhesive joints as soon as most of the solvent has evaporated.

The strength of this initial set is usually sufficient to maintain the assembly, and with some adherents, will exceed the strength of the material. Bond strength increases as evaporation of the solvent progresses, reaching a maximum when all solvent has been removed.

In addition to the adhesive applications, PLIOBOND is also used as a primer, coater, and sealer.

HANDLING: PLIOBOND adhesives contain ingredients which could be harmful if mishandled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn.

For important health, safety and handling information,

consult the Material Safety Data Sheet for each individual adhesive before use.

SHELF LIFE: Six months in closed containers under ambient conditions (rotate stock). D.O.T. label required: flammable liquid. Stir before use.

Physical properties of PLIOBOND VOC Compliant special purpose contact adhesives			
Table 1	PLIOBOND 25	PLIOBOND 35	PLIOBOND 45
Base Polymer	Nitrile Rubber		
Base Resin	Thermosetting Phenolic		
Total Solids, %	19-23	28-32	37-42
Viscosity, Cps	400-1200	3,000-10,000	40,000-75,000
Specific Gravity	0.87	0.89	0.99
Pounds/Gallon	7.2	7.4	7.7
Color	Tan	Tan	Tan
Solvent(S)	Acetone/Blend	Acetone/Blend	Acetone/Blend
Flash Point, °F Seta	20	20	20

VOC Compliant Formulation

PLIOBOND 45

PC-445 Gallon Can
PC-545 5-Gallon Pail
PC-5045 50-Gallon Drum

PLIOBOND 25 LV

P-612-LV 3-oz. Skin-Pack Brush-top Bottle
PBC-25-LV ½-Pint Brush-top Can
PC-225-LV Pint Can
PC-325-LV Quart Can
PC-425-LV Gallon Can
PC-525-LV 5-Gallon Pail
PC-5025-LV 50-Gallon

PLIOBOND 35 LV

PBC-35-LV ½-Pint Brush-top Can
PC-235-LV Pint Can
PC-335-LV Quart Can
PC-435-LV Gallon Can
PC-535-LV 5-Gallon Pail
PC-5035-LV 50-Gallon Drum

Physical properties of PLIOBOND Traditional formulation special purpose contact adhesives			
Table 1	PLIOBOND 20	PLIOBOND 30	PLIOBOND HT-30
Base Polymer	Nitrile Rubber		
Base Resin	Thermosetting Phenolic		
Total Solids, %	19-23	28-32	28-32
Viscosity, Cps	400-1200	3,000-10,000	3,000-10,000
Specific Gravity	0.87	0.89	0.89
Pounds/Gallon	7.2	7.4	7.4
Color	Tan	Tan	Tan
Solvent(S)	MEK	MEK	MEK/Alcohol
Flash Point, °F Seta	20	20	21

Traditional Formulation

Consumer Packages

PLIOBOND 20

P-141 1 oz. Tube Blister
P-612 3 oz. Brush Top Bottle
PBC-20 ½ pint Brush Top Can

Industrial Packages

PLIOBOND 20

P351 1 oz. tube Ind. Pack
PBC-20 ½ pint brush top can
PC-220 Pint Can
PC-320 Quart Can
PC-420 Gallon Can
PC-520 5-Gallon Pail
PC-5020 50-Gallon Drum

Industrial Packages

PLIOBOND 30

P-3530 1 oz. tube Ind. Pack
PBC-30 ½ pint brush top can
PC-230 Pint Can
PC-330 Quart Can
PC-430 Gallon Can
PC-530 5-Gallon Pail
PC-5030 50-Gallon Drum

PLIOBOND HT-30

PC-HT230 Pint Can
PC-HT330 Quart Can
PHT 30-4 Gallon Can
PHT30-5 5-Gallon Pail

Distributed By:

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THE RUSCOE COMPANY

Adhesives & Sealants

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Manufactured by:

Ashland Chemical, Inc.

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Nitrile Rubber Base Sealants

Permanent Sealer

The Sealant Chosen by Professional Contractors



Low VOC Formulations

Permanent Sealer™—Nitrile Rubber Base Sealant

This versatile adhesive/sealant is resistant to all climatic conditions, fungus, many acids, gasolines, jet fuel, salt and many chemicals.

Permanent Sealer was designed for applications to bond aluminum, steel, glass, wood and rigid vinyls. It fills a specific need for rain carrying systems, storm doors and replacement windows. Used on mobile homes, swimming pools, rec vehicles and boats, it also bonds all common building materials including brick, concrete, fiberglass and glass.

It forms a permanent, yet flexible bond which will withstand sub-zero readings or extremes of desert sun. It is paintable after a 24 hour cure.

Permanent Sealer— 10.3 Oz. Cartridges

Use on openings 1/18" or larger - is self leveling.

		Pack	Wt.
PSCG	1/10 Gal. Cartridge—Aluminum	24	22
PSW	1/10 Gal. Cartridge—White	24	22
BPS	1/10 Gal. Cartridge—Brown	24	22

Permanent Sealer™ High Viscosity

The PS High Viscosity Sealer exhibits very unique non-sag properties while still providing excellent adhesion to most surfaces, good chemical resistance, and permanent flexibility, plus long term performance and durability not found in many products.

The PS High Viscosity Sealants are particularly suited for vertical and angular sealing jobs such as doors, windows, lap joints, caulking and overhead applications as well as sloping surfaces. These sealants can be used in vertical joints up to 1/2 inch in width without sagging. May be applied at temperatures as low as 32 degrees F and even under wet conditions, including standing water.

Permanent Sealer HV— 10.3 Oz. Cartridges

Use on openings up to 1/2".

		Pack	Wt.
PSCG-HV	1/10 Gal. Cartridge—Aluminum	24	22
PSW-HV	1/10 Gal. Cartridge—White	24	22
BPS-HV	1/10 Gal. Cartridge—Brown	24	22
CPS-HV	1/10 Gal. Cartridge—Clear	24	22

Permanent Sealer— 4 Oz. Tubes

Tube Grade PS is a thinner viscosity sealant for small seams and will flow into the smallest openings.

		Pack	Wt.			Pack	Wt.
PC-98	4 oz.—Clear Blister Pack	6 dz.	27	PS-98T-1	4 oz.—Aluminum Bulk Pack	6 dz.	25
PC-98T-1	4 oz.—Clear Bulk Pack	6 dz.	25	PW-98	4 oz.—White Blister Pack	6 dz.	27
PS-98	4 oz.—Aluminum Blister Pack	6 dz.	27	PW-98T-1	4 oz.—White Bulk Pack	6 dz.	25
				PB-98T	4 oz.—Brown Bulk Pack	6 dz.	25

Permanent Sealer Physical Properties

	Tube Grade	Cartridge Grade	HV-High Viscosity
Rubber Base:	Nitrile	Nitrile	Nitrile
Solvent:	Ketone, Aromatic, Ester	Ketone, Aromatic, Ester	Ketone, Aromatic, Ester
Solids:	49%	50%	59%
Wt./Gal.:	9.0	9.0	8.7
Viscosity:	60,000 cps	170,000 cps	350,000 cps
Flash Point (TCC)	-4 Degrees F	-4 Degrees F	-4 Degrees F
D.O.T. Classification	Flammable Liquid UN1133	Flammable Liquid UN1133	Flammable Liquid UN1133
Color	Aluminum, Brown and White	Aluminum, Brown and White	Aluminum, Brown and White
Shelf Life	One Year	One Year	One Year
Adhesion—to most porous and non-porous surfaces incl. glass	Excellent	Excellent	Excellent
Clean Up	Acetone	Acetone	Acetone
Tack-Free Time (77°F/50% RH)	Less than 10 Minutes	Less than 10 Minutes	Less than 10 Minutes

Before use, review material safety data sheet for further information

Performance properties of cured sealant

Property	Standards	Tube Grade	Cartridge Grade	HV-High Viscosity
Hardness	ASTM D2240 Shore "A"	25-35	30-40	20-30
Elongation	ASTM D412	1000% Minimum	600% Minimum	100% Minimum
Chemical Resistance	ASTM D471	No effect-jet fuel, gasoline, motor oil, deicing chemicals or calcium chloride (5%) (for all three)		
Performance (Weatherometer)	ASTM D822 350 Hrs.@77°F at 50% RH	Slight chalking on White and Brown, no effect on Aluminum (for all three)		
Salt Spray Resistance	ASTM B117 28 days @100°F 5% NACL Sol.	No effect	No effect	No effect
Shrinkage	D1779 (6.1.4)	50%	40%	Less than 10%
Flexibility (Temp. Range)		Remains flexible from -30°F to 300°F (for all three)		
Sag or Slump	D2202-73	N/A	N/A	Passes
VOC (grms/liter)		<90	<95	<90

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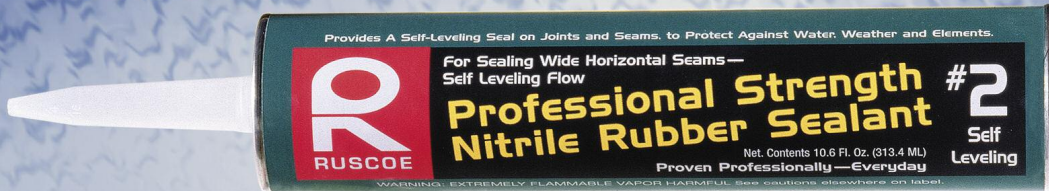
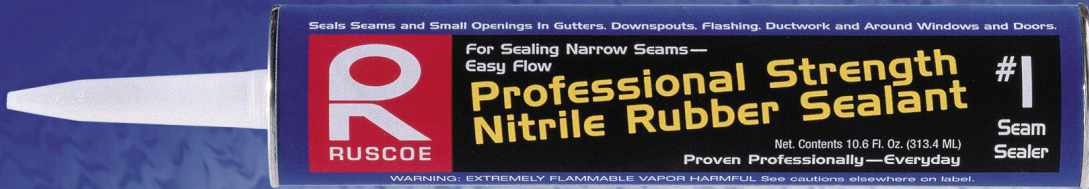
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Professional Strength Nitrile Rubber Sealants

For the Toughest Jobs



#1 Seam Sealer #2 Self-Leveling #3 Non-Sag

Ruscoe Professional Strength Nitrile Rubber Sealants in formulas #1 Seam Sealer, #2 Self Leveling and #3 Non-Sag form a unique and particularly effective family of sealants.

Using an aluminum fortified adhesive base, they incorporate the protective and elastic qualities of synthetic elastomeric formulas.

Ruscoe Professional Strength Nitrile Rubber Sealants DO NOT require primers on properly prepared surfaces, they can be applied in relatively LOW temperatures and skin over to form a protective seal.

The Right Way—The First Time

Smart contractors who depend on referrals for continued business have learned, sometimes the hard way, not to use “bargain” materials that let them down and frequently result in call backs.

Successful contractors use Ruscoe Professional Strength Nitrile Rubber Sealants to fill seams in gutters and down spouts, on roof and chimney flashings, windows and storm doors, in a variety of

heating and air conditioning applications, as well as roof ducting and concrete joints.

Ruscoe Professional Strength Nitrile Rubber Sealants have been formulated for thin seam sealing, self leveling sealing and non-sag sealing applications on sloped and vertical requirements. Each formula can be used with all commonly used construction materials.

Each formulation exhibits exceptional adhesion to porous and non-porous substrates. Ruscoe products are also weatherproof, self cleaning and show phenomenal aging qualities as well as heat resistance. **Now provided in a low VOC formulation.**



Ruscoe Professional Strength Nitrile Rubber Sealants
Proven Professionally—Everyday

TECHNICAL DATA

#1 Seam Sealer

Description: Ruscoe #1 Seam Sealer is recommended for sealing openings less than 1/8-inch. It can be used as an effective sealant against water, chemicals, air and dirt for sealing seams in gutters, downspouts, roof and chimney

flashings, troughs, wood, concrete, ceramic, brick, metal, stone, masonry, marble and glass. Ruscoe #1 Seam Sealer is recommended for sealing horizontal and lap seams only.

#2 Self-Leveling Sealant

Description: Ruscoe #2 Self-Leveling Sealant is recommended for sealing openings greater than 1/8-inch. It can be used as an effective sealant against water, chemicals, air and dirt on wood or metal doors and windows, metal buildings, mobile home

roofs and bodies, truck trailer roofs and bodies, HVAC ducting, concrete, ceramic, brick, metal, stone, masonry, marble and glass. Ruscoe #2 Self-Leveling Sealant is recommended for sealing horizontal seams only: it is self leveling.

#3 Non-Sag Sealant

Description: Ruscoe #3 Non-Sag Sealant is recommended for sealing openings and lap joints greater than 1/8-inch. It can be used as an effective sealant against water, chemicals, air and dirt including sealing wood or metal doors and windows, metal

buildings, mobile home roofs and bodies, truck trailer roofs and bodies, HVAC ducting, wood, concrete, ceramic, brick, metal, stone, masonry and marble. Ruscoe #3 Non-Sag Sealant can be used on horizontal, sloped, slanted or angular surfaces.

Product Benefits:

- Aluminum fortified adhesive formula.
- Excellent adhesive properties.
- Excellent exterior durability and flexibility.
- Can be applied at low temperatures.
- Requires no primer.
- Good adhesion to either porous or non-porous substrates—including glass.
- Weatherproof—skins over to form protective seal.
- Low VOC formulation

Typical Physical Properties

	#1 Seam Sealer	#2 Self-Leveling	#3 Non-Sag
Color	Aluminum	Aluminum	Aluminum
Base Polymer	Nitrile Rubber	Nitrile Rubber	Nitrile Rubber
Total Solids by Weight, %	44.0	46.0	56.0
Specific Gravity	1.04	1.07	1.04
Pounds per Gallon	8.7	8.9	8.7
Viscosity, cps Brookfield RVT, Spindle No. 6 at 10 rpm	70,000	175,000	350,000
Solvents	Ester, Ketone, Aromatic	Ester, Ketone, Aromatic	Ester, Ketone, Aromatic
Flash Point, (TCC), °F	-4	-4	-4
Application Temperature, °F	40-100	40-100	40-100
Clean-Up	Acetone	Acetone	Acetone
VOC Grams/Liter	<90	<79	<74

Handling: Ruscoe Nitrile Rubber sealants contain ingredients which could be harmful if mishandled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn.

NOTICE: The Ruscoe Company makes no warranty or representation as to the suitability of the products as specified herein for any particular applications. The determination of the suitability of the above specification for any particular use is solely the responsibility of the user.

All precautionary labels and notices should be read and understood by all supervisory personnel and employees before using. Purchaser is responsible for complying with all applicable federal, state or local laws and regulations covering use of the product. Special attention should be given to consumer applications. Freedom to use any patent owned by Ruscoe or others is not to be inferred from any statement contained herein.



THE RUSCOE COMPANY

Adhesives & Sealants

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Ruscoe 12-1, 12-3 and 12-4 Nitrile Rubber Sealants

Designed For The Toughest Sealing Jobs



Using 12-1, 12-3, 12-4 Sealants makes very good sense.

12-1 Seam Sealer, 12-3 Self-Leveling Sealant and 12-4 Non-Sag Sealant are members of a special family of sealants. Based on an aluminum fortified adhesive formula, they incorporate the protective and elastic qualities of synthetic elastomers. These sealants do not require primers on properly prepared surfaces, can be applied at relatively low temperatures, and skin over to form a protective seal.

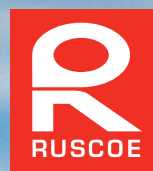
Do The Job Right The First Time Out

Smart contractors have learned, sometimes the hard way, not to use materials that let them down.

They use Ruscoe nitrile rubber sealants to fill seams in gutters and downspouts, on roof and chimney flashings, windows and storm doors, heating and air conditioners, roof ducts and concrete joints to meet or exceed the toughest tests devised by customers or nature.

They have been designed for thin seam sealing, self leveling seals and overhead and vertical seals to be used with all commonly used construction materials. These products exhibit excellent adhesion to porous and non-porous substrates, including glass. They are also weatherproof, self cleaning and show excellent aging qualities and heat resistance.

Proven Professionally... Everyday



**THE RUSCOE
COMPANY**

Adhesives &
Sealants

TECHNICAL DATA

Seam Sealer

Description: Ruscoe's 12-1 Seam Sealer is recommended for sealing openings less than 1/8 inch. It can be used as an effective sealant against water, chemicals, air and dirt for sealing seams in gutters, downspouts, roof and chimney flashings, animal feeders and troughs, wood, concrete, ceramic, brick, metal, stone, masonry, marble and glass. Ruscoe's 12-1 Seam Sealer is recommended for sealing horizontal seams only.

Self-Leveling Sealant

Description: Ruscoe's 12-3 Self-Leveling Sealant is recommended for sealing openings greater than 1/8 inch. It can be used as an effective sealant against water, chemicals, air and dirt for wood or metal doors and windows, metal buildings, mobile home roofs and bodies, truck trailer roofs and bodies, HVAC ducting, concrete, ceramic, brick, metal, stone, masonry, marble and glass. Ruscoe's 12-3 Self-Leveling Sealant is recommended for sealing horizontal seams only.

Non-Sag Sealant

Description: Ruscoe's 12-4 Non-Sag Sealant is recommended for sealing openings and lap joints greater than 1/8 inch. It can be used as an effective sealant against water, chemicals, air and dirt including wood or metal doors and windows, metal buildings, mobile home roofs and bodies, truck trailer roofs and bodies, HVAC ducting, wood, concrete, ceramic, brick, metal, stone, masonry, marble and glass. Ruscoe's 12-4 Non-Sag Sealant can be used on horizontal, vertical, overhead, slanted or angular surfaces.

PRODUCT BENEFITS

- Aluminum fortified adhesive formula • Excellent adhesive properties
- Excellent exterior durability and flexibility • Can be applied at low temperatures • Requires no primer
- Good adhesion to either porous or non-porous substrates—including glass
- Weatherproof—skins over to form a protective seal

Typical Physical Properties	12-1 Seam Sealer	12-3 Self-Leveling	12-4 Non-Sag
Color	Aluminum	Aluminum	Aluminum
Base Polymer	Nitrile Rubber	Nitrile Rubber	Nitrile Rubber
Total Solids by Weight, %	44.0	54.0	58.0
Specific Gravity	0.96	1.01	1.02
Pounds per Gallon	8.0	8.4	8.5
Viscosity, cps	50,000	450,000	1,100,000
Brookfield RVT, Spindle No.7 at	20 rpm	4 rpm	2 rpm
Solvents	Ketone, Aromatic	Ketone, Aromatic	Ketone, Aromatic
Flash Point, (TCC), °F	<0	<0	<0
Application Temperature, °F	40-100	40-100	40-100
Clean-Up	Acetone	Acetone	Acetone
VOC grams/liter	90	75	70

HANDLING: Ruscoe nitrile rubber sealants contain ingredients which could be harmful if mishandled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn.

For important health, safety and handling information, consult Ruscoe's Material Safety Data Sheets before using these products.

NOTICE: Ruscoe makes no warranty or representation as to the suitability of the products as specified herein for any particular applications. The determination of the suitability of the above specification for any particular use is solely the responsibility of the user.

All precautionary labels and notices should be read and understood by all supervisory personnel and employees before using. Consult Ruscoe and OSHA regulations for additional safety and health information. Purchaser is responsible for complying with all applicable federal, state or local regulations covering use of the product. Special attention should be given to consumer applications. Freedom to use any patent owned by Ruscoe or others is not to be inferred from any statement contained herein.



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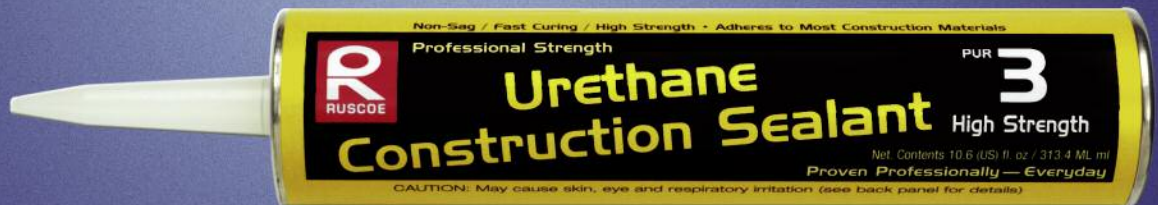
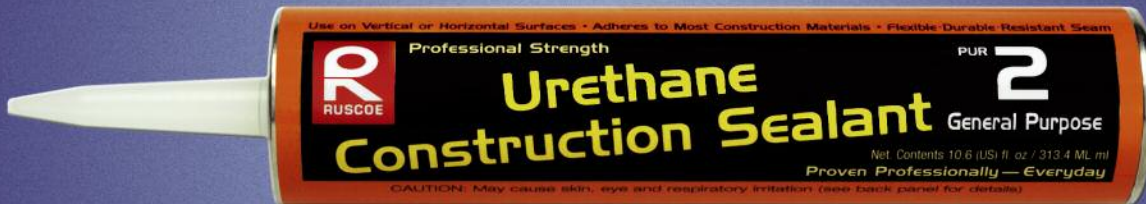
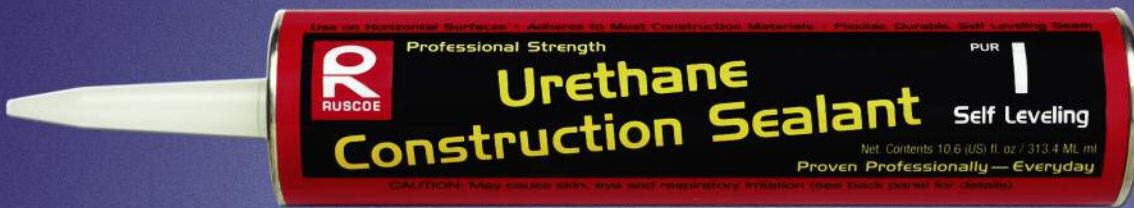
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Professional Strength Urethane Construction Sealants

For The Toughest Jobs



PUR-1 Self Leveling

PUR-2 General Purpose

PUR-3 High Strength

Ruscoe Professional Strength Urethane Construction Sealants in formulas PUR-1 Self Leveling, PUR-2 General Purpose, and PUR-3 High Strength combine to provide construction, remodeling and industrial users with a broad based, LOW VOC content family of sealants.

Each consistency is a one component, moisture curing sealant with excellent adhesion to most construction materials.

Ruscoe Professional Strength Urethane Construction Sealants DO NOT require primers on properly prepared and clean surfaces. They can be applied in a variety of temperature conditions, including down to 40 degrees F.

Successful professionals who depend on a strong referral base for new business have learned not to use "bargain" materials that frequently fail and result in time consuming call backs.

Thanks to our three unique consistencies, Ruscoe Professional Strength Urethane Construction Sealants can be used in a blizzard

of applications including, but not limited to, filling seams in gutters and down spouts, on roof and chimney flashing, windows and storm doors, in a wide variety of heating and air conditioning circumstances, as well as roof ducting, concrete joints and high traffic floor situations.

Ruscoe Professional Strength Urethane Construction Sealants are formulated for situations requiring a self leveling compound (PUR-1 Self Leveling), all general purpose applications (PUR-2 General Purpose) and circumstances demanding high strength (PUR-3 High Strength).

Each exhibits exceptional adhesion to porous and non-porous commonly used construction materials. They are waterproof, heat resistant, and exhibit outstanding aging qualities.



Professional Strength
Urethane Construction Sealants

Proven Professionally — Everyday

Rusco Professional Strength Urethane Construction Sealants

PUR-1 Self Leveling

This is a one component, moisture curing, pourable, self leveling urethane sealant highly recommended for heavy traffic floor joints. Its non-gassing property makes it ideal for high temperature and humid conditions. It conforms with the requirements of ASTM C920, Type S, Grade P, Class 25, Use T. G. A. and M. and to Federal Specifications TT-S-00230C. Sealing Compound, elastomeric type, single component, Type II, Class A and Canadian Standard CAN/CGSB-19, 13 M87, Class B, Gray, 1-25, MCG-N.

USES: Ruscoe PUR-1 SELF LEVELING is a one-part moisture-curing urethane sealant that turns into a flexible and resistant elastomeric seam and has a very good adhesion to most construction materials (concrete, steel, anodized aluminum, glass, and wood).

It keeps superior, long term elasticity, tear resistance and has a good UV resistance.

It is not recommended for contact with bitumen, asphalt, acids, strong alkalis and solvents.

It has been specially formulated for industrial and heavy duty public traffic floor joints.

TECHNICAL DATA:

Color	grey/white
Consistency	fluid paste
Specific gravity at 68°F	9.76 lbs/gal.
Paint compatibility	water-based = compatible solvent based: check compatibility
Skin formation time (73°F 50% R.H.)	< 4 hours
Curing speed (73°F 50% R.H.)	> 1/8" per 24 hours
Shore A hardness ISO 868 (3 sec.)	> 40 after 14 days
Modulus at 100% elongation (ISO8339)	93 psi
Elongation at break (ISO8339)	> 100%
Application temperature	+40 - +95°F
Temperature resistance	-22 to +200°F
Substrate staining	none
Resistance to weathering	excellent
Resistance to UV	good
Resistance to diluted acids and bases	medium
Resistance to salt water	excellent
Joint movement capability, %	± 25%

INSTRUCTIONS FOR USE: It should be gunned or poured into the seam fitted with a backer rod. The substrates must be clean, dry, free of dust and grease. Do not apply the sealant at temperatures <40°F. Do not apply on wet substrates. After extrusion, each seam should be tooled to ensure contact with both edges then smoothed with a damp knife.

STORAGE – SHELF LIFE: 12 months in closed original packaging stored between +40 and +75°F.

PACKAGING: 10.6 fl. oz. cartridges

VOC: 6.4 grams/Liter

PUR-2 General Purpose

This is a one-component moisture-curing urethane-based sealant. It conforms with the requirements of ASTM C920, Type S, Grade NS, Use NT, Class 25 and Federal Specifications TT-S-00230C Type II, Class A, Canadian standard CAN/CGSB 19, 13-M87, Class A 2-25, MCG, N. It is NSF approved for incidental food contact (R2).

USES: PUR-2 General Purpose is a one-component moisture-curing urethane-based sealant that turns into a flexible, durable and resistant seam. It has an excellent adhesion to most construction materials.

It is recommended for vertical expansion joints between concrete panels, seams on wood, aluminum and PVC joints. It is also recommended for bonding concrete and clay roof tiles.

TECHNICAL DATA:

Color	white
Consistency	thixotropic
Specific gravity at 68°F	9.76 lbs/Gal.
Tooling time (at 68°F and 50% R.H.)	30 min.
Paint compatibility	water-based: compatible solvent based: check compatibility
Tack free time ASTM C679	2 hours
Cure rate (68°F 50% R.H.)	1/8" per 24 hours
Shore A hardness ASTM C661	25
Sagging (ISO7390)	none
Modulus at 100% elongation ASTM D412	53 psi
Elongation at break ASTM D412	> 800%
Adhesion in peel ASTM C794	
Aluminum	25 lbf 0% adhesion loss
Glass	25 lbf 0% adhesion loss
Mortar	27 lbf 0% adhesion loss
Application temperature	+40 to +95°F
Service temperature resistance	-22 to +200°F
Substrate staining	none
Resistance to weathering	excellent
Resistance to UV	good
Resistance to diluted acids and bases	medium
Resistance to salt water	excellent
Joint movement capability, %	± 25%

INSTRUCTIONS FOR USE: It should be applied with a manual or pneumatic caulking gun. Substrates must be clean, dry, free of dust and grease. Do not apply at temperatures below 40°F. Do not apply on wet substrates. After extrusion, each seam should be tooled to ensure contact with both sides of the joint. Application tools can be cleaned with solvent (toluene or xylene) before curing. After cure, mechanical cleaning will be required.

STORAGE – SHELF LIFE: 12 months in closed original packaging stored between +40 and +75°F. Note: 50 Gal. drums: 3 months.

PACKAGING: 10.6 fl. oz. cartridges

VOC: 5 grams/Liter

PUR-3 High Strength

PUR-3 High Strength is a fast-curing one-component moisture-curing urethane adhesive sealant. It meets and exceeds ASTM C920 Type S, Grade NS, as well as Federal Specifications TT-S-00230C Type II Class A NSF approved.

USES: PUR-3 High Strength is a non-sag, multi-purpose, one-part moisture-curing urethane adhesive sealant that cures to a flexible, durable and resistant seam and has a very good adhesion to most construction materials.

PUR-3 HS has been formulated with a short skin formation time and a high curing speed. It is recommended for bonding most construction materials. It can also be used for waterproofing seams. It has a high elasticity, plus excellent tear, vibration and weathering resistance. Easy to apply, it adheres without primer to most common substrates, including glass, aluminum, lacquered metal, wood, FRP, and concrete.

TECHNICAL DATA:

Color	white
Consistency	thixotropic
Specific gravity at 68°F	9.85 lbs/Gal.
Sag ASTM D2202	none
Cleaner	xylene or toluene
Tack free time ASTM C679	40 min
Cure rate (68°F 50% R.H.)	>1/8" per 24 hours
Shore A hardness ISO 868 (3 sec.)	about 50
Temperature resistance	-40 to +200°F
Modulus at 100% elongation ASTM D412	100 psi
Modulus at break ASTM D412	356 psi
Tensile strength ASTM D2370	199 psi
Lap shear strength (glass/metal after 7 days 72°F/50% R.H.)	29 psi
Peel strength on glass & aluminum ASTM C794	30-32 lb/in 0% adhesive loss
Elongation at break ASTM D412	700%
Application temperature	+40 to +170°F
Resistance to UV	good
Resistance to usual solvents and hydrocarbons	medium
Resistance to diluted acids and bases	medium
Resistance to water and salt water	excellent
Joint movement capability, %	± 12 1/2%

INSTRUCTIONS FOR USE: It should be applied with a manual or pneumatic caulking gun. Substrates must be clean, dry, free of dust and grease. Do not apply at temperatures <40°F and >95°F. Grease, paint or loose materials should be removed. After application the sealant should be smoothed with a damp knife. Application tools can be cleaned with a solvent (toluene or xylene) before curing. After cure, mechanical cleaning will be required.

STORAGE – SHELF LIFE: 12 months in closed original packaging stored between +40 and +75°F.

PACKAGING: 10.6 fl. oz. cartridges

VOC: 7 grams/Liter

Handling: Ruscoe Professional Strength Urethane Construction Sealants contain ingredients which could be harmful if mishandled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn.

NOTICE: The Ruscoe Company makes no warranty or representation as to the suitability of the products as specified herein for any particular applications. The determination of the suitability of the above specification for any particular use is solely the responsibility of the user.

All precautionary labels and notices should be read and understood by all supervisory personnel and employees before using. Purchaser is responsible for complying with all applicable federal, state or local laws and regulations covering use of the product. Special attention should be given to consumer applications. Freedom to use any patent owned by Ruscoe or others is not to be inferred from any statement contained herein.

All statements, technical information and recommendations contained herein are based on tests believed to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties expressed or implied.

Seller's and manufacturer's only obligation shall be to replace such quantity of the product proven to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising from the use of, or the inability to use the product. Before using, user shall determine the suitability of the product for their intended use and user assumes all risk and liability whatsoever in connection therewith.



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