

RepSeal PC- Paintable Hybrid Silicone-Urethane Joint Sealant

100% Solids Joint Sealant for Vertical & Overhead Applications

DESCRIPTION:

RepSeal PC is a One Component, 100% solids, Plasticizer-Free, **paintable** Hybrid Silicone-Urethane Seal. It features NS: No Slump technology for vertical and overhead applications. Its **Plasticizer free formulation**, prevents residue formation on surface in lower temperature applications. No plasticizer also means the product will retain its initial flexibility for the many times longer. Designed for Industrial uses requiring elasticity, high strength, and excellent adhesion. **RepSeal PC** may be applied to ice-free surfaces at or below freezing temperatures and performance at temperatures as low as -40 degrees. **RepSeal PC** even bonds to damp or wet surfaces and is rain tolerant and cures to a waterproof tough flexible sealant.

USES:

- Parking Garage Joints
- Paving and Expansion Joints
- Pre-Cast Concrete
- Tilt-Up Floors & Walls

FEATURES:

- 100% Solids, UV Resistant
- Applies Vertically as well as Overhead
- Bonds to Damp Masonry
- Durable Long Lasting Seal
- Excellent Weathering Properties
- Fast Skinning – Resists Dirt Pickup on Construction Sites
- Hybrid – Bonds to a Variety of Substrates without Priming
- No Mixing & Non staining
- No Shrinkage & Mildew resistant
- No Solvents or Odor, Safe to Use in Confined Spaces
- Non-Sag /Non Slump

TECHNICAL DATA:

ASTM C-920, Type S, Grade NS, Class 25, use NT, T, M, G, A, and O
Federal Specification TT-S-00230-C Type II, Class A Corps of Engineers CRD-C-541, Type II, Class A Canadian Standards Board CAN 19, 13-M82

PACKAGING:

10.3 oz. Cartridges: 24 per case
28 oz. Cartridges
2 gallon (7.56 liters): pails

COLOR:

Gray and White

COVERAGE:

Install all joint applications per ASTM and SWRI recommendations and guidelines. Joints shall be designed with a depth to width ratio of 1:2 (joint depth one-half the width). It is recommended that the joint shall be no less than 1/4" wide by 1/4" deep (6 mm x 6 mm). The maximum depth of sealant shall be 1/2" (13 mm). Control the depth of the sealant by using a backer rod that is 25% larger than the joint opening at standard temperature. Prevention of three-sided adhesion is necessary.

Joint Sealant Coverage Chart (linear feet per gallon)

		Width of Joint (in.)										
		1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1.25"	1.5"	1.75"	2"
Depth of Joint (in.)	3/16"	411	275	205	164							
	1/4"	307	205	154	123	103	88	77	62	51	44	38
	3/8"			103	82	68	59	51	41	34	29	26
	1/2"			77	62	51	44	39	31	26	22	19
	5/8"								25	21	18	15
	3/4"								21	17	15	13

JOINT PREPARATION:

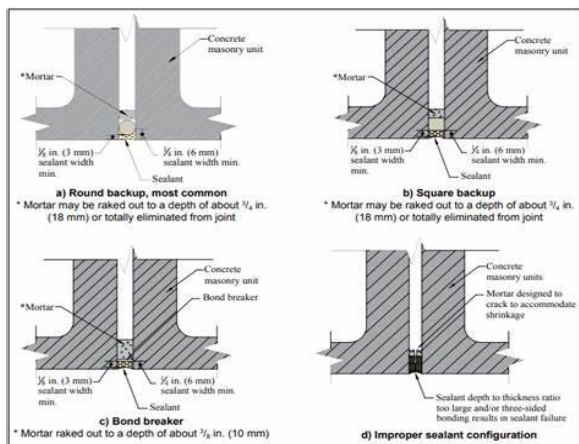
Joints should be cleaned, dry, and free from all contamination including dirt, oils, grease, tar, wax, rust and any other substance that may inhibit the sealant's performance.



PHYSICALS	
Specific Gravity	1.60 ± 0.1
Viscosity (Brookfield RVT, TF Spindle, 4RPM, 73°F [23°F])	>1,000,000 cps
Odor	None
Service Temperature, Continuous Service	-40°F to 200°F (-40 to 93.3°C)
Low Temperature Flex	-20°F(-33.3°C) pas 1/4" Mandrel
Slump (Sag), ASTM C-697	Zero Slump
Hardness, ASTM D-2240 Shore A	32 ± 2
Shear Strength, ASTM D-1002	150 ± 15 psi (1.03 ± 0.1 mPa)
Tack-free Time, ASTM C-679	40-50 minutes
Elongation, ASTM D-412	300%
Solids by Weight, ASTM D 1644	100%
Solids by Volume, ASTM D 2697	100%
Tensile Strength, ASTM D 2370	300 psi (2.07 MPa)
Skin Time, ASTM C 679	30 min
Flash Point, ASTM D 56	None
VOC EPA 24	8 gms/l <1.5%
Shrinkage, after 14 days	No Measurable Shrinkage
Thermal Compatibility to Concrete	Good

JOINT DESIGN:

Where the joint configuration will not permit a backer rod, it is recommended that an alternative bond breaker be used. Prevention of three-point adhesion is necessary through the use of a backer rod or bond breaker tape to ensure proper joint movement and a long lasting weather-proof seal.



METAL:

Prepare all metal in a manner to ensure maximum adhesion. Remove all rust, scale and residue. Remove films, coatings and oils with an appropriate solvent such as alcohol.

CONCRETE:

Concrete and masonry substrates shall be fully cured and dry prior to the application of the sealant. Remove any contamination by mechanical abrasion, sand blasting or power washing.

WOOD:

Wood shall be clean, sound and dry prior to sealant application. Treated wood shall be allowed to weather for six 6 months. Coatings and paint shall be removed (or tested for compatibility) to ensure a proper bond.

PRIMING:

In most instances RepSeal PC will not require a prime. However, certain applications or substrates, such as Kynar-coated metal, may require a primer to ensure a long lasting bond and weatherproof seal. It is the user’s responsibility to determine the need for a primer. It is recommended that, where-ever pro-longed immersion is anticipated, a primer be used for best performance.

APPLICATION:

RepSeal PC is a one component, ready-to-use material that requires no mixing. It is recommended that a quality caulking gun be used to ensure ease of application. Apply when temperatures are above 40°F (4.4°C). When all the joint preparation is complete, cut the plastic nozzle at a 45-degree angle to approximately the size of the joint opening. Begin gunning to fill the joint from the bottom to the surface, ensuring there are no voids or air pockets. Dry tooling is recommended to create a strong mechanical bond against the joint faces.

Do not use RepSeal PC in temperatures below 40°F (4.4°C). It can be painted after 24 hours. RepSeal PC can be used in vertical or overhead working conditions.

FINISHING:

Wet sealant can be removed using a solvent such as alcohol, or soap and water. Cured RepSeal PC can be removed by abrading or scraping the substrate. Equipment should be cleaned with an environmentally-safe solvent, as permitted under local regulations, immediately after use.

CURING:

RepSeal PC typically skins over within 15-45 minutes and cures through in 3 to 7 days depending upon temperature, humidity and thickness. Water curing is the preferred method when caulking in low temperatures. Lower temperatures and humidity prolong cure time. Higher temperatures accelerate cure time.



STORAGE AND SHELF LIFE:

Store in original, unopened containers in a cool, dry area at a temperature between 60-95°F (15-35°C). Protect unopened containers from heat and direct sunlight. Elevated temperatures will reduce shelf life. **RepSeal PC** has a shelf life of one year from the date of manufacture; when stored indoors at a temperature between 60-95°F (15-35°C) and in the original factory sealed containers.

LIMITATIONS:

RepSeal PC should not be used in direct contact with single component, moisture-cured-urethane coatings without use of an epoxy primer. Sealant shall be cured for 3-5 days prior to any direct coating.

Avoid prolonged contact with skin. Uncured adhesive irritates eyes. In case of contact with eyes, immediately flush with water. Call a physician.

In areas of prolonged chemical expo-sure contact Technical Services for recommendations. Do not allow uncured **RepSeal PC** to come into contact with uncured silicone sealants.

Allow treated wood to “cure” for six months prior to application per APA guidelines. Do not use in areas subject to continuous immersion without a primer.

Horizontal applications will require tooling. Do not store in elevated temperatures. **RepSeal PC** will not freeze during storage. To ensure easy gunning, bring to room temperature before application.

Read and ensure that the most up-to-date SDS and technical guidelines are being followed. Proper use and application are the responsibility of the applicator.

WARRANTY:

Due to the use of this product beyond our control, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied, from either **TuffTex Materials, Inc.** or its agents. The

suitability of the product for an intended use shall be solely up to the user. Our only obligation shall be to replace or pay for any material proved defective, with our liability limited to the purchase price of materials supplied by us.

DISCLAIMER:

Refer to the SDS sheet before use. The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of **TuffTex Materials, Inc.** Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Published technical data and instructions are subject to change without notice. Contact your local **TuffTex Materials, Inc.** distributor or technical representative for additional technical data and instructions.

