

CRESSEAL PU is a one component, gun-grade, Non-sag, moisture-cure polyurethane sealant designed to skin and cure rapidly. This high performance product is designed with outstanding UV resistance and long term durability.

USES

- Sealant is designed to seal construction joints.
- To seal waterproof rivet seams and roof rails.
- To seal perimeter joints around windows and doors.
- Sealing corner moldings, fabricated roof-lap seams, bumper assemblies and body-to-cab joints in motor homes.
- Sealing Air conditioning equipment, flashing and gutters.
- Sealing door hinges, skylights and pot holes.



ADVANTAGES

- Accomdates 30% joint movement.
- Permanently flexible, excellent weather ability
- Easy to gun, Easy to tool
- Cures to a tough, durable, elastic consistency excellent cut and tear resistance.
- Paintable, non-sticky after cure.

FEATURES

- Paintable
- Single component & convenient packing.
- Movement accommodation factor $\pm 25\%$, 30% excellent adhesion without priming.
- Highly resistant to sea water, diluted acids and alkalis.
- Odourless.
- UV resistant/fast curing.
- Low VOC.

APPLICATION INSTRUCTIONS

CRESSEAL PU meets or exceeds the requirements of the following specifications: ASTM C 920 Type S, Grade NS, Class 25.

TECHNICAL PROPERTIES

Description	Value	Standard
Solid content, %	>98	-
Skin over time @min	15-25	-
Density, g/cc	1.4 $\pm$ 0.5	-
VOC, (g/L)	<25	USEPA 24
Flow (sag or slump)	Non Sag	ASTM C 639
Hardness: Shore A	30 $\pm$ 3	ASTM D 2240
Movement Capability, %	± 25	ASTM C 719
Peel Strength (N), concrete	>27	ASTM C 794
Tensile Strength (N/mm ²)	1.4	ASTM D 412
Elongation at Break, %	>350	ASTM D 412
Effects of Accelerated Ageing @300 hrs. UV exposure	No deterioration	ASTM C 793
Temperature Resistance, °C	-40 to +90	-
Application Temperature, °C	+5 to +40	-

All values given are subject to 5-10% tolerance.

PACKING

600ml sausage, 20 sausages per carton.

COLOURS

White, off-white, grey, and black. For other colour please contact local KANZ representative.

EXPANSION JOINT DESIGN

CRESSEAL PU may be used in any joint designed in accordance with accepted architectural/engineering practices. Joint width should be at least 4 times anticipated movement, and not less than (5mm).

While applied on an expansion joint the depth (D) of the sealant should be equal to the width (W) of the joints that are less than 10mm wide. For wider joints, width to depth ratio should be 2:1.

The maximum width of the joint on which **CRESSEAL PU** can be applied is 25mm.

JOINT BACKING

Closed cell polyethylene backer rod is recommended as joint backing to control sealant depth and to ensure intimate contact of sealant with joint walls when tooling. Where depth of joint is insufficient for the use of backer rod, an adhesive backed polyethylene tape (bond breaker tape) should be used to prevent three sided adhesions. All backing should be dry at time of sealant application.

YIELD

The following formula is an approximate guideline to calculate foreseen yield for a standard 600ml sausage of **CRESSEAL PU**.

$$L = 600 / (W \times D)$$

Where:

L = Length of sealant in metres obtained per cartridge.

D = Depth of the joint in mm.

W = Width of the joint in mm.

Meter per 600 ml.

Joint Depth (mm)	Joint Width (mm)					
	6	10	12	15	20	25
6	16.6					
8		7.5	6.2	5		
10		6	5	4	3	
12					2.5	1.9
15						1.6

SUBSTRATE PREPARATION

Surfaces must be sound, clean, and dry. All release agents, dust, loose mortar, laitance, paints, or other loose particles must be removed. This can be accomplished with a thorough wire brushing, sanding, or solvent washing, depending on the contamination. **CRESSEAL PU** recommends that surface temperatures be below 40°C at the time the sealant is applied.

APPLICATION

CRESSEAL PU is easy to apply with conventional caulking equipment. Ensure that the backer rod is friction fitted properly. Mask the sides of the joint with tape prior to filling for a cleaner finish. Fill the joint completely with a proper width-to-depth ratio and tool to ensure intimate contact of sealant with joint walls. Dry tooling is always preferred, although xylene can be used in limited amounts to slick the spatula if needed following the initial dry tooling.

PRIMING

CRESSEAL PU typically adheres to common construction substrates without primers; however, due to the variability of substrate finishes available, where deemed necessary, use primer mockup or field adhesion test can be performed on the actual materials being used on the job to verify the need for a primer.

FOR OPTIMUM PERFORMANCE

- In cool or cold weather, store container at room temperature for at least 24 hours before using.
- **CRESSEAL PU** can adhere to other residual sealants in restoration applications. For best results always clean the joint as advised in the Surface Preparation section of this data guide.

A product field adhesion test for **CRESSEAL PU** within the specific application is always recommended to confirm adhesion and suitability of the application.

- When using **CRESSEAL PU** in a traffic-bearing horizontal joint, use a firmer joint backing, such as neoprene rod or polyethylene foam block, and recess the surface of sealant (3mm - 6mm).
- Pursuant to accepted industry standards and practices, using rigid paints and/or coatings over flexible sealants can result in a loss of adhesion of the applied paint and/or coating, due to the potential movement of the sealant however, should painting and/or coating be desired it is required that the applicator of the paint and/or coating conduct on-site testing to determine compatibility and adhesion.
- Proper application is the responsibility of the user. Field visits by KANZ personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

CLEAN UP

Excess sealant and smears adjacent to the joint interface can be carefully removed with xylene or mineral spirits before the sealant cures. Any utensils used for tooling can also be cleaned with xylene or mineral spirits.

LIMITATIONS

- Do not apply over damp or contaminated surfaces.
- Do not use **CRESSEAL PU** as a structural (load transferring) sealant.

STORAGE AND SHELF LIFE

CRESSEAL PU has a shelf life of 12 months when stored in tightly closed original casks, in a dry place at a temperature between +5°C and +25°C.

CURING TIME

CRESSEAL PU generally cures at a rate of 2mm per day at 25°C and 50% relative humidity. **CRESSEAL PU** skin in 15-20 minutes and be tack-free in 1 hour. Lower temperatures and humidity will extend curing time.

HEALTH AND SAFETY

Use only with adequate ventilation. Prevent contact with skin, eyes and clothing. Wash thoroughly after handling. Avoid breathing vapors. DO NOT take internally. Use impervious gloves, eye protection if the TLV is exceeded or used in a poorly ventilated area. Always utilize the accompanying MSDS for information on Personal Protective Equipment (PPE) and health Hazards.

Product Disclaimer:

Kanz chemical Ind. LLC products are guaranteed against defective materials and are sold subject to standard terms and condition of sale, copies of which are available on request which are reasonable. All recommendations regarding the use of product are made without guarantee since the conditions of use are beyond the company's direct control. It is the customer's responsibility to ensure each product is fit for the purpose for which they intend to use it. Furthermore the specifications and description herein cannot be used to void a contract.

*Refer material safety data sheet (MSDS) for further information.