

Non-Sagging Single Component Polyurethane Construction Joint Sealant for High Performance Chemical Resistance.**Gun Grade & Moisture Curing****Description:**

PUR Seal 1KNS 8276 is a low modulus, one component polyurethane sealant. It is manufactured strictly under the system of Global Requirement.

Uses:

As an elastic joint sealant for:

- **In situ concrete**
- **Precast and tilt up panels**
- **Brick and blockwork**
- **Plasterboard**
- **Aluminium windows**
- **Granite, sandstone and**
- **GRS, Fibreglass & Specialty panel systems**
- **Metal curtain wall**
- **Water tanks**

Advantages:

- One component, ready for immediate use, no mixing required
- Excellent durability
- Acoustic rating
- Non-corrosive
- Low modulus
- Paintable
- Good weathering and water resistance

Technical Data (Typical)**PUR Seal 1KNS 8276**

Types	Cross linking Pre-Polymer Polyurethane.
Colour	Black, White, Gray
Odor	no
Appearance	uniform paste
Density	approx. 1.3 g/cm ³
Solid Contents	100%
Elastic Recovering %	>95%
Sagginess	0
Curing rate	~2mm/24hr
Shore «A» Hardness	~30
Application Temperature	5°C ~ 40°C
Service Temperature	-40°C ~ 80°C
Tack Free Time	approx. 6hours (fast curing type: ~ 60 min)
Tensile Strength	>1.3
Elongation at Break	approx. 900%
Shearing Strength	approx. 0.6Mpa
Tear Resistance	Approximately 0.35 N/mm ²
Pot Life	20°C ≈ 45 minutes 30°C ≈ 30 minutes 40°C ≈ 15 minutes
Shelf Life	Approximately 12 months in unopened original containers.
Packaging	600ml sausage
Movement Capacity	Concrete Surfaces: ≈ 35% of average joint width Bituminous Surfaces: ≈ 28% of average joint width
Storage Condition	Store in cool and dry place (5~30°C recommended). Avoid damage to the package. When stored at the recommended conditions in original, unopened containers, this product has a shelf life of 12 months.

Consumption Guide**Coverage in meter per kg sealant**

Joint	Width	8 mm	10 mm	15 mm	20 mm	25 mm
	Depth					
	8 mm	10.5	8.4	5.6	4.2	3.4
	10 mm	8.4	6.7	4.5	3.4	2.7
	15 mm	5.6	4.5	3.0	2.2	1.8
	20 mm	4.2	3.4	2.2	1.7	1.3
	25 mm	3.4	2.7	1.8	1.3	1.1

1 litre PUR Seal 1KNS 8276 by volume = approx. 1.3 g/cm³
Typical properties after seven days cure at 25°C and 50% RH.

Instructions For Use**Joint Preparation**

All joints must be clean, dry and free from any loosely adhering particles. Remove oil and grease and if necessary colour coatings and other surface contaminants. Minor damages to joint surface should be repaired first using **Epo Bond Putty or Epo Mortar or Cem Strength or Cem Grout**. All metals should be degreased and free from rust or oxide layers.

Joint Depth

To avoid a three-sided joint and to ensure correct joint depths, polyethylene foam is inserted tightly into the joint. Where joints have been formed with fibre filler boards, this must be raked back to the required depth and a bond breaker tape inserted. For neat straight edges, apply masking tape along the joint flanks.

Priming

Activators and/or primers may be required to achieve optimal adhesion depending on the nature of substrates.

Use Epo Bond Primer for all cement-bounded building materials, exposed brickwork, asbestos cement, natural and artificial stonework, polyester and hard PVC. Drying time is minimum 1 hour and maximum 5 hours.

For all metal, glass, clinker and stoneware use Epo Bond Primer combined with Epo Bond Primer. Allow Epo Bond Primer to dry for at least 2 hours before applying Epo Bond Primer.

Use Epo Bond Primer for bituminous covering joint. Two coats are necessary with an interval drying time of minimum 12 hours and 24 hours for final drying.

No priming is necessary for epoxy and polyurethane surfaces. However, these substrates are to be grounded, roughened and activated with Colma-Cleaner.

Application

Minimum application temperature 5°C. PUR Seal 1KNS 8276 should be dispensed from either the cartridge or sausage by means of a caulking gun. Pierce the membrane at the top of the cartridge and screw on the nozzle. Cut nozzle to give the required angle and bead size. Place the cartridge in an applicator gun and squeeze the trigger. For sausages, a barrel gun is required, clip the end of the sausage and place in barrel gun. Screw end cap and nozzle on to barrel gun. Using the trigger extrude the Sealant, to stop depress using the catch plate. Apply PUR Seal 1KNS 8276 in a continuous bead using enough pressure to properly fill the joint.

Cleaning

Clean and dry all surfaces by removing foreign matter and contaminants such as oil dust, grease, frost, water, dirt, old sealants and any protective coating. Dust and loose particles should be blown out of joints or vacuum cleaned. Non porous surfaces may require preparation/priming. Cleaning solvents should not be allowed to dry or evaporate without being wiped with a clean, dry cloth.

Safety

The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleansed at the end of each working period either by washing with soap and warm water or by using a resin removing cream – the use of powerful solvents is to be avoided. Disposable paper towels-not cloth towels-should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water-consult a doctor immediately.

For more information, please refer to the Safety Data Sheet (available upon request).

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