

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

PUR Seal 1KNS 8275 is a low modulus, one component moisture-curing polyurethane adhesive sealant with permanent elasticity. It is manufactured strictly under the system of Global Requirement.

Uses:

As an elastic adhesive for:

- **Assembling metal framed buildings**
- **Cover plates and covings**
- **Light-weight construction materials**
- **Acoustic ceiling tiles**
- **Wood, metal or plastic window and Door frames**

Advantages:

- One component, ready for immediate use, no mixing required
- Excellent adhesion
- High durability
- High abrasion resistance and tear strength
- Non-corrosive
- Low modulus
- Paintable
- Good weathering and water resistance
- Fast cure rate
- Certified for use in contact with potable water
- Can be painted over with many water-, solvent- and rubber-based paints (Preliminary test recommended)

Technical Data (Typical)**PUR Seal 1KNS 8275**

Types	Cross linking Pre-Polymer Polyurethane.
Color	Black, White, Gray
Odor	no
Appearance	uniform paste
Density	1.15-1.2 kg per litre
Solid Contents	100%
Elastic Recovering %	>95%
Sagginess	0
Curing rate	3~5mm/24hr
Shore «A» Hardness	45~55
Application Temperature	5°C ~ 40°C
Service Temperature	-40°C ~ 80°C
Tack Free Time	45~75 minutes
Tensile Strength	>2.0Mpa
Elongation at Break	600%
Shearing Strength	>1.5Mpa
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 8275 by volume = 1.15-1.2 kg per litre

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 color 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

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. For easier use store cartridges at temperatures between 10~20°C. Break inner seal at extrusion end of cartridge. Affix nozzle to cartridge, cut tip to suit joint size. Install into a caulking gun. Apply in spots or beads on prepared surface, tapping or pressing the part to be adhered against the substrate. The thickness of the bead depends on the surface texture (1mm~5mm). For sausages, a barrel gun is required, clip the end of the sausage and place in barrel gun. Using the trigger extrude the sealant, to stop depress using the catch plate. Apply PUR Seal 1KNS 8275 in a continuous bead using enough pressure to properly fill the joint. When making sides of joints for neatness, remove tape before the sealant cures. Always allow sufficient surface exposed to moisture.

Cleaning

Clean, sound, dry and free of oil, grease and surface contaminants such as form release agents, curing membranes and hydrophobic water repellents. Thoroughly remove all loose particles and dust.

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).

Note

The information and recommendations relating to the application and end-use of COMENS' products are given in good faith based on COMENS' current knowledge and experience of the products when properly stored, handled and applied under normal conditions. This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use, due to the practical differences in materials, substrates and actual site conditions.

Users are requested to check that they are in possession of the latest version of this document and COMENS' is at their disposal to supply any additional information.

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