

ZELOSEAL IK PU

One Part Flexible
Polyurethane Sealant



TECHNICAL DATA SHEET

DESCRIPTION

- ZeloSeal Ik PU is a damp curing, one-component polyurethane construction high flexible sealant. The product has been designed to provide a non-slump elastomeric sealant ranging in width from 5 to 30 mm in concrete, masonry, metal, and a variety of other substrates. It cures atmospherically to generate a flexible elastomeric seal that can withstand continuous cyclic movement of up to 25% of the joint width as a total movement while providing good weathering qualities with good skin formation time and quick cure.

PRODUCT FEATURES

- No priming is required for this strong resistant seal.
- Excellent resistance damages to dilute acids and alkalis.
- A variety of colors are available.
- Non-toxic and suitable for potable water uses.
- Ready-to-use without the need for on-site mixing, providing consistent features and performance.

TYPICAL USES:

- ZeloSeal Iik PU is commonly used to seal non-trafficked seams that are prone to high movement in construction and civil engineering structures such as precast concrete elements, building facades, high rise, dams, reservoirs, basements, and bridges.
- ZeloSeal Iik PU has high flexibility, great restoration and tear resistance, and good weatherability; it can also be used submerged.

METHOD OF APPLICATION:

SURFACE PREPARATION:

- All areas should be clean, dry, and empty of dust and loose objects then apply ZeloSeal Iik PU with a sealing gun, either manual or mechanical. The substance should be injected into the pre-prepared joint. At temperatures below 5oC, do not apply the sealant. Do not use on damp surfaces. After application, the sealant can be smoothed with a gloved finger and lubricated with soap and water.
- A solid backing and good adherence to joint surfaces are required for submerged circumstances. Concrete must be completely cured (4 weeks).

Guide to approximate quantities

Joint size in mm (WxD)	LM per 600 MI Sausage
10x10	6
12x10	5
15x10	4
20x10	3
15x15	2.5
20x15	2
25x15	1.5
20x20	1.2

- By protective the face edges of the joint, masking tape can easily used to increase the neatness of the resulting seal. This should be removed as soon as the ZeloSeal 1k PU has been applied.

CURING :

- ZeloSeal PU may take up to 7 - 10 days for it to fully cure, depending on the depth applied.

CLEANING OF TOOLS:

- Before curing, ZeloSeal 1k PU should be cleaned out of tools using a solvent (white spirits). Only mechanical methods can be used to remove solid material.

PACKING & STORAGE:

- ZeloSeal 1k PU comes in 600ML sausage packs.
- One packet is enough to fill 6 LM of 10mm x 10mm joint.
- For joints up to 10mm broad, the width-to-depth ratio is 1: 1.
- 2: 1 for joints wider than 10mm.
- When stored in the packaging it came in at an allowable temperature of 30 oC, ZeloSeal 1k PU has a shelf life of 12 months. When stored at high average temperatures or humidity, the shelf life is shortened by up to 50-60%.

HEALTH & SAFETY:

- There are no harmful chemicals in ZeloSeal 1k PU. Safety should always be maintained while using construction chemical products. While interacting with, protective clothes such as gloves and goggles must be used. For optimal protection, long-sleeved overalls, safety shoes, and a face mask are advised. After usage, close all containers and store the product as directed on the label's safety section. Any splashes on the skin or eyes should be treated quickly with fresh water. If any of the items are wrongly consumed, do not induce vomiting; instead, seek medical attention immediately. Please see the MSDS for each Titan-Tech product for additional information.

PROPERTIES :

- Standard Confirms: ASTM C 920
- Appearance: Smooth, Viscous Paste
- Color: White and Grey (other colors available on request)
- Specific Gravity @20°C: 1.3
- Service Temp: -40°C to 80°C
- Elongation: >900%
- UV Resistance: Excellent
- Shore A Hardness +25
- MAF: + 25% in a butt joint
- Adhesion to Concrete: >2 N/mm²
- Curing: 7Days
- Toxicity: Non Toxic