

TECHNICAL DATA SHEET

CicoSeal®PU30

One Part Low Modulus Silyl-terminated Sealant

DESCRIPTION

CicoSeal®PU-30 is a high performance one part, Silyl-terminated polymer based joint sealant. CicoSeal®PU-30 is a natural curing product; it cures with atmospheric moisture to set and form a durable elastic rubber. for sealing joints in airports runways, terminal ramps, hangers, transportation storage areas and other areas where various fuels and liquids may encounter sealant after curing. CicoSeal®PU-30 has excellent adhesion to most construction surfaces. It has excellent weather resistance and is suitable for hot and tropical climatic conditions.

USES

- Expansion joint sealing to precast concrete
- Curtain wall sealing.
- Glass, glazed surfaces, aluminum, steel, stainless steel & plastics rubber seal.
- Concrete flooring joints.
- Cover bolts and overlaps for steel roofs.

ADVANTAGES

- Wide application capability.
- High adhesion to concrete without using primer.
- Non sag; ideal for vertical application.
- Easy to apply; one part.
- No material waste; no mixing needed.
- No discoloration.
- UV stable.
- Resistance to sea water & sewage.
- Weathering resistance.
- Resistant to jet fuel and hydraulic liquid.
- Suitable for hot climate conditions.
- Primer-less to a wide range of substrates
- Hybrid chemistry ensures strong adhesion

STANDARDS COMPLIANCE

CicoSeal®PU-30 complies with the requirements of the following standards:

ISO 11600 F-25 LM, SNJF C cat 1, UBATC, DIN 18540 & ASTM C920, Type S, Grade NS, Class 25, Dse T, NT, O, M, G, I, ASTM C719, 794, D 412, D2240 T.8 SS-S- 200E & ISO 10545.

PACKAGING

600 ml sausage.

SHELF LIFE & STORAGE

12 months storage life if stored in its original unopened containers under a dry and shaded place in a temperature from 5°C to 40°C.

TECHNICAL PROPERTIES

Form	Viscous paste
color	Concrete Grey (other colors are available on request)
Density @ 25°C	1.7±0.02 kg/ltr
Skin formation time @ 20°C, 65% RH	17±2 min.
Curing rate @ 20°C, 65% RH	3 mm/24 hrs.
Shore A Hardness (ASTM D2240)	30-40
Temperature serviceability	-30°C to +90°C
Elastic modulus @100% (DIN 53504)	0.8±0.1 N/mm²
Maximum tension (DIN 53504)	1.7±0.1 N/mm²
Elongation at break (DIN 53504)	350-450%
Movement capability	>25 %
Tensile strength	0.5 - 0.55 N/mm²

APPLICATION INSTRUCTIONS

Joint Preparation

CicoSeal®PU-30 can be used with usual building surfaces, most metals, polyesters, and many plastics. glass or PVC. Joint surfaces must be clean, dry, and free from dust and

laitance. Mechanical preparation of surfaces with grinding sandpaper or emery paper is recommended. Contamination can be removed by wiping with a Cicosurface®Degreaser. Use Cicobacking®Rod, which is 5 mm greater than the joint width to ensure insert stability. Using a backing rod is a must. Not only to adjust the required section dimensions but also to ensure that the sealant is not bonded with the bottom of the joint. If there is no space for a backing rod, any debonding tape should be used for the same purpose. Apply masking tape on both sides of the joint before priming and remove it once the sealant application is over.

Application Procedures

Extrude the sealant into the joint by using a caulking gun ensuring contact with joint faces and avoiding any air voids. CicoSeal®PU-30 should be smoothed using appropriate tools.

Sealant Preparation:

- Load the sealant cartridge or sausage pack into the caulking gun.
- Cut the nozzle tip at an angle to match the desired bead size.

Application:

- Apply the sealant in a steady, continuous motion, filling the joint completely without leaving voids.
- Avoid stretching or pulling the sealant excessively during application.

Tooling:

- Use a spatula, putty knife, or a gloved finger to tool the sealant immediately after application.
- Tooling helps ensure full contact with the substrate, smoothens the surface, and removes air pockets.
- Wet the tooling tool with soapy water for easier shaping and a smoother finish.

Removal of Excess:

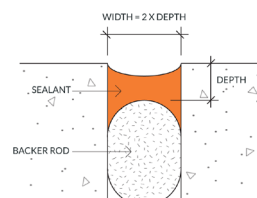
Wipe off excess sealant with a cloth or scraper before it cures. Remove masking tape while the sealant is still wet.

JOINT SIZE:

Minimum width	2 mm (In bonding application) 5 mm (In joints)
Maximum width	10 mm (In bonding application) 35 mm (In joints)
Minimum depth	5 mm (In joints)

Recommendation:

- Joints under normal force only: Depth = Half Width.
- Joints under normal & shear force: Depth = Width.



CLEANING

Uncured CicoSeal®PU-30 can be cleaned with Cicosolvent® or alcohol, while cured sealant can be removed by light hand tools such as spatulas.

PRECAUTIONS

Health And Safety

CicoSeal®PU-30 is non-hazardous. It should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles and gloves should be worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When contact with the skin is made, wash off immediately with soap and water. If swallowed, seek medical attention immediately, do not induce vomiting.

TECHNICAL SUPPORT

CIC provides on-site assistance, as well as consulting services on projects when requested. Technical data sheets on other CIC products and guidance on their use are available on request.

Warranty

CIC products are guaranteed against defective materials and manufacture and sold subject to CIC's standard terms and conditions of sale. Whilst CIC endeavors to ensure that any advice, information or recommendation given is correct, the company cannot accept any liability either directly or indirectly arising from the use of its products. User of the product must test the product's suitability for the intended application and purpose, since the company has no control over the application of its products. Information contained in this document is given on the best current knowledge. Our Products are in continuous development and CIC reserves the right to change the product without prior notice.