

CIKOjoint PU 50

Polyurethane based joint sealant

Description

CIKOjoint PU 50 is two-component polyurethane based joint sealant for horizontal and vertical applications for expansion and contraction joints. The cured material provides very high elastomeric property having a movement accommodation factor of 25%.

CIKOjoint PU 50 is a polyurethane resin cured with hardener to form a tough rubber seal after curing.

CIKOjoint PU 50 is available for traffic application purposes as gun grade and pouring grade.

Properties

- Cold applied two component system.
- Available in pouring and gun grade consistency.
- Accommodates cyclic movement of pavement slab due to thermal expansion and contraction.
- Exhibits good UV resistance.
- Provides excellent bond strength over a wide range of substrates.

- Available in standard colours.
- Low maintenance cost.

Application area

CIKOjoint PU 50 is a high quality joint sealant that is suitable for,

- Traffic applications
- Expansion and contraction joints in buildings.
- Concrete pre-cast claddings.
- Joints in compound walls.
- Industrial floors and basements.
- Joints on roofs
- joints in pedestrian and vehicular traffic areas such as walkways, plazas, decks and parking garages.

Applicable standards

- CIKOjoint PU 50 complies with ASTM C-920 Type M, Grade NS / Grade P/ Grade T

Physical properties

	CIKOjoint PU 50
Form	Viscous liquid
Colour	Grey. Other colors are available upon request
Solid content	100%
Pot life	45 to 60 minutes @ 25 ⁰ C
Service temperature	-20 ⁰ C to +90 ⁰ C
Tacky free time	24 hours @ 25 ⁰ C
Curing time @ 25 ⁰ C	7 days
Shore A hardness	50 ± 3
Elongation ASTM D412	>200% (GG) >250% (PG)
Movement accommodation factor	25% butt joint
Chemical resistance	Resistance to spillage to most chemicals. Specific data available on request.

Coverage

CIKOjoint PU 50 provides coverage as follows.

Joint size 20mm X 10mm	5.0m per litre
Joint size 20mm X 20mm	2.5m per litre

Note: Coverage rate may vary depending on joint size.

Application instructions

Surface preparation

Clean the joint substrate to make it free from all loose particles, dust, oil grease and any other form of contamination. In case of oil spillage, proper treatment should be carried out on the surface. The joint must be free from dampness and standing water.

Placing backup rod and masking tape

Closed cell polyurethane based backup rod must be placed inside the joints. The depth of the sealant shall be maintained by properly placing the backup rod. Fix masking tape on upper face of the concrete.

Application of primer

Apply CIKOprimer Pu on the sides of the clean, dry joints using brush. Allow the primer to become tacky (20-30 minutes) before applying joint sealant CIKOjoint PU 50.

Mixing

The base component of CIKOjoint PU 50 should be mixed thoroughly using a heavy duty slow speed drill fitted with paddle and ensure a homogenous mix. Then hardener component should be poured into the base component and mixed well until a homogenous mix is obtained.

Application method

Horizontal Joints – pouring Grade

Properly mixed material can be directly poured into the primed joint and levelled to the surface of concrete. To remove bubbles generated during pouring, gently swipe the surface by using a thin flexible pad after 30-60 minutes of application

Vertical Joints – Gun Grade

Properly mixed material shall be first filled inside sealant gun and joints must be filled by triggering required amount sealant. The surface shall be levelled using spatula.

Packaging

CIKOjoint PU 50 is available in 4 litre kits.

Shelf life

CIKOjoint PU 50 has a shelf life of 12 months in unopened pails and if stored in accordance with manufacturer instructions.

Storage

CIKOjoint PU 50 should be stored under enclosed shaded area at temperatures between 10 – 35°C.

Precautions

- Do not use over damp surface or standing water.

Health & safety

CIKOjoint PU 50 should not come in contact with eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Applicator should wear appropriate clothes, gloves and goggles. Use of barrier cream is recommended to provide additional skin protection. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

Technical Support

For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.

More from CIKO Middle East

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries