

# CIKOcrete PU

## Solvent-Free Polyurethane Mortar for Expansion Joint and Bearing Applications

### Description

CIKOcrete PU is three components solvent free mortar for expansion joints and bearing application. CIKOcrete PU is a liquid applied Polyurethane base for horizontal applications on concrete, mortar, cement block masonry surfaces, asphalt, steel substrate, etc. The cured material provides excellent elastomeric properties and can be used on a wide range of porous and non-porous substrates.

### Properties

- Three component polyurethane
- Easy to mix (Pre-packed packs) and use
- Solvent free
- Environmental friendly
- Durable with long life expectancy under heavy traffic
- Resistant to wide temperature fluctuations
- Exhibits good impact and abrasion resistance.
- Waterproof bond to asphalt, concrete, steel substrates, etc.
- Excellent mechanical properties
- Tough and hard-wearing
- Cold applied system
- Smooth ending

### Application area

CIKOcrete PU is suitable for:

- Expansion joints
- Road nosing
- Transition strip

### Physical properties @ 25°C

Form	Three components system Part A: Black Liquid Part B: Brown Liquid Part C: Powder
Mix density	1.75 kg/l
Mixing ratio	Pre-weighed packs
Pot life	20-25 min
Service temperature	-15 °C to +85 °C
VOC	<20g/l
Compressive strength	>20MPa

### Coverage

After mixing the CIKOcrete PU parts, 12 litres materials are produced.

### Application instructions

#### Surface preparation

The substrate should be free from dust and loose particles. All contamination should be treated well before application of CIKOcrete PU. In case of presence of traces of oil or grease on the substrate, it shall be removed by suitable means.

Substrates must be visibly dry and structurally sound to the satisfaction of the engineer.

#### Priming

For old/porous concrete with moisture <4%: CIKOprimer PU to be used. CIKOcrete PU to be applied when CIKOprimer PU is still tacky.

Note: for green concrete contact CIKO technical team for further instructions.

#### Mixing

The base component [Part-A] of CIKOcrete PU should be mixed thoroughly using a heavy duty slow speed drill-paddle assembly for two minutes and ensure that a homogenous mix with uniform colour is obtained. Transfer the mixed base component [Part-A] completely to a suitable container that can hold the volume.

Pour the hardener component [Part-B] into the mixed base component [Part-A] and mix well to homogeneity.

Add the component Part-C to the properly mixed Part-A & Part-B and mix well to obtain a homogenous mass.

#### Application method

Cover the formwork with plastic tape or similar prior to the application of the mortar to allow easy removal after CIKOcrete PU has cured. Apply to the substrate using a steel float to place, compact and finish.

#### Cleaning

Equipment's are to be cleaned with CIKOsol immediately after usage. Contact CIKO technical team for more giddiness and information.

#### Packaging

CIKOcrete PU is available in 25 kg kit.

#### Shelf life

CIKOcrete PU has a shelf life of 12 months if stored in accordance with CIKO instructions.

#### Storage

CIKOcrete PU should be stored under enclosed shaded area at temperature above 5 °C and below 25 °C.

#### Precautions

Prior application of CIKOcrete PU, ensure that

- The substrate is <4% moisture.
- Do not apply CIKOcrete PU to a depth of more than 120mm in a single operation. (Multiple layers allowing each layer to fully cure before applying the next one. Hatch each layer to aid keying of the subsequent layer.)
- The ambient temperature is between 10 – 35 °C.
- The substrate temperature is between 10 – 35 °C
- The relative humidity is below 75%.
- Do not apply in areas where there is a chance of rising dampness.

#### Health & safety

CIKOcrete PU 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 further 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
- Adhesives and bonding agent
- Concrete repair materials
- Protective coating
- Joint Sealants
- Moulding compounds

TDS/FT18 Rev.:3 Issue:C

Note: The information presented herein based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control



ص. ب رقم : ٢٩٥ ، الدوحة - قطر  
 ت : ٤٤١١ ٤٧٨٧ ، ٤٤١١ ٤٧٩٠ ، ٤٤١١ ٤٧٩٤  
 فاكس : ٤٤١١ ٤٧٩٢

P.O.Box : 295, Doha, Qatar  
 T.: (+974) 4411 4787 / 4411 4790 / 4411 4794  
 F.: (+974) 44114792  
 E-mail: enquiries@cikome.com