

CIKOpoly Bar

Hydrophilic synthetic rubber based swelling bar

Description

CIKOpoly Bar is used for water sealing of concrete construction joints, precast concrete segments, proofing of shafts and pipe penetrations subjected to continuous or intermittent hydrostatic pressure. CIKOpoly Bar exhibits a swelling up to 450% once it gets in contact with water thus providing a gap and pores sealing in all concrete joints.

Advantages

- Easy and safe application
- Good swelling properties on contact with water.
- Elastic having a good tensile strength and elongation.
- Permanent water resistance with no leaching.
- Ecological, eco-friendly and non-polluting.
- Exhibits good chemical resistance.
- Retains its own shape after many dry wet cycles.

Applicable standards

CIKOpoly Bar complies with Qatar Construction Specifications QCS.

Application Area

- Sealing construction joints
- Sealing construction joints in tunnel segments, precast concrete, precast manholes and cable ducts etc.
- Sealing pipe & steel work penetration through walls and slabs.
- Sealing around conventional rubber, plastics, PVC.
- Sealing construction joints in water towers and water retaining structures.

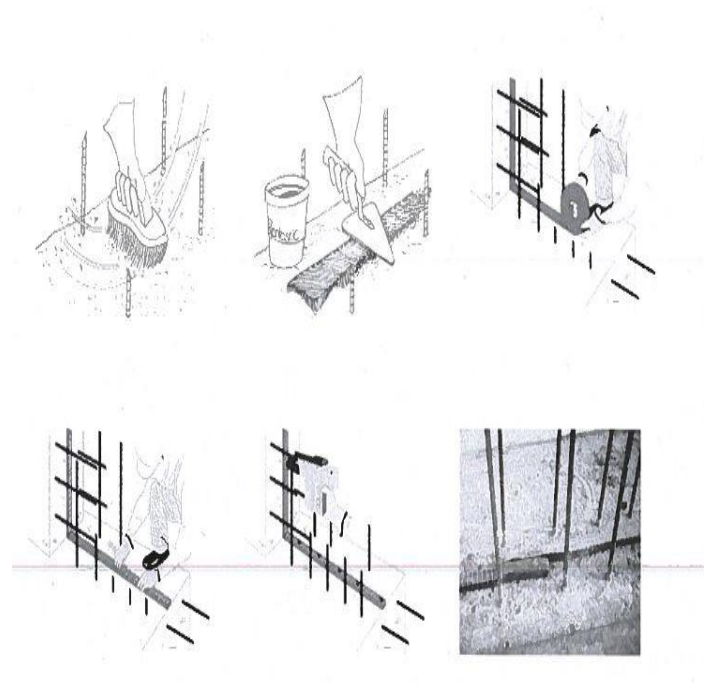
Surface preparation

All surfaces must be brushed firmly to ensure a clean, dry and free from oil, grease and all loosely adhering particles. When necessary, level the extremely uneven and irregular surfaces using the suitable means.

Application

Unroll CIKOpoly Bar in the middle of the joint maintaining at least 80 mm cover on all sides. Make sure to have continuous contact with the joint surface. When using an adhesive, press firmly CIKOpoly Bar into the adhesive. Install wire mesh over CIKOpoly Bar and fix to the structure by nailing.

When connections are required, assure an overlap of at least 10 cm using the appropriate and suitable adhesive or sealant.



Physical & Chemical Characteristics

Criteria	Specifications
Density	1.25±0.03 g/cm ³
Hardness Shore A	30-40, ASTM D2240
Service temperature	-30°C to 70°C,
Swelling rate by volume	Up to 450% in pure water & up to 175% in sea water
Elongation at break	>300%
Tensile strength	1-1.2 MPa
Change of volume	>200% @ 7 days & >300% @ 14 days
Colours	Blue, Red and Black
Chemical resistance to occasional spillage of alcohols, hydroxides, hydrocarbons and strong solvents. Specific data will be provided upon request.	

Profiles

CIKOpoly Bar is available in two profiles:

- 20mm Width and 5 mm thickness.
- 20mm Width and 10 mm thickness.

Packaging

CIKOpoly Bar is packed in boxes as below:

- 10 rolls of length 10 m for 20*10mm.
- 5 rolls of length 10 m for 20*5mm.

Storage

Storage should be stored in closed cool area at temperatures between 5°C and 30°C away from moisture sun light and heat.

Shelf life

CIKOpoly Bar has a shelf life of 12 months if unopened and stored in accordance with manufacturer instructions as written in the storage section.

Health & safety

Applicator should wear suitable cloths, gloves and. Use gloves recommended providing additional skin protection.

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
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries