

# CICO HYDROPHILIC SWELL BAR

## DESCRIPTION:

CICO HYDROPHILIC SWELL BAR is used for sealing of concrete construction joints, precast concrete segments, proofing of shafts and pipe penetration subjected to continuous or intermittent hydrostatic pressure.

## USES:

1. To seal construction joints
2. To seal construction joints in tunnel segments, precast concrete, cable ducts etc.
3. To seal pipe & steel work penetration through walls and slabs.

## ADVANTAGES:

1. Easy and secure application.
2. Good sealing properties on contact with water.
3. Good elastic properties.
4. Permanent water resistance, no leaching.
5. Non-polluting, ecological user friendly system.
6. Need no hardening time.

❖ **Colour** – Blue, Red, Black or as per requirement.

❖ **Packaging** – 25-100 meters rolls or as per requirement.

## TECHNICAL DATA:

### CHEMICAL PROPERTIES

Classification -	+	Resistance
	-	No Resistance
	+/-	Limited Resistance

Chemical Compound	Classification	Remarks
Sulfuric Acid	-	
Sea Water	+	
Benzyl alcohol	+/-	Resistant in case of accident for 72 h
Ethyl acetate	+	Accelerate expansion
o-Xylene	+	Accelerate expansion

m-Xylene	+	Accelerate expansion
Toluene	+	Accelerate expansion
Petrol	+	
Diesel	+	
Kerosene, Jet fuel	+	
Mineral oil	+	
Liquid manure	+	
Ethylene glycol	+	
Ethanol	+	
Methanol	+	
Acetone	+	Strong accelerated expansion
Ammoniac solution 32%	+	
Sodium hydroxide solution	+	
2- Butoxyethanol sol. 10%	+	
n-Hexane	+	
Acetic acid 96%	+	Accelerated expansion

### PHYSICAL PROPERTIES:

Tensile strength	13 Kgf/cm <sup>2</sup>
Specific density	1.25 gm/cm <sup>3</sup>
Hardness	40-50 (Shore A)
Elongation at break	300% min.
Swelling rate	350% vol. in pure water & 150% vol. in sea water
Service temperature range	-30 <sup>0</sup> c to 60 <sup>0</sup> c
Change of volume	7 days in tap water ≥ 200% 14 days in tap water ≥

### SCALING OF CONSTRUCTION JOINTS:

CICO HYDROPHILIC SWELL BAR Profiles can be fixed with the help of appropriate sealant for lap over parts and joints.

### INSTALLATION FOR CICO HYDROPHILIC SWELL BAR

- Surface should be clean and dry.
- Rubber can be bound to concrete surface by driving nail, hooks or adhesive.
- Typically the product is installed at the centre and should be at least 80 mm cover.
- The coil ends should overlap at least 10 cm side by side.
- Keep away from moisture to avoid premature swelling.

## STORAGE:

- Store in a cool and dry place in the original packing to prevent from moisture and premature swelling.

## SAFETY PRECAUTIONS:

- Use gloves to avoid rate allergic reactions.
- Do not reuse containers for storage of consumable item.

### Important Note:

All CICO products are sold in the market after strict Quality Control in line of ISO 9001 and guaranteed against any manufacturing defect. Although the basic formulation of Company's products generally remains unchanged, production refinements arising from continuing research and evaluation program may occasionally result in marginal changes in properties. CICO aspires to ensure that any recommendation, advice, test data, specification, method statement and other information given in this product datasheet is accurate and best of company's knowledge. Since, the company (CICO TECHNOLOGIES LTD) has no control over the selection of its product, applicators, application methodology, how and where it is applied, therefore, the company cannot accept any liability directly or indirectly arising from the use of its product. It is important to any customer, user or specifier satisfies him / herself that the product is suitable for the intended purpose including health, safety and environmental aspect. Unless or otherwise agreed in writing, all products of the company are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. All customers, users, specifiers should ensure that they examine the suitability of the product with company's latest product data sheet.

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