

**MAXCEL<sup>®</sup>**

## **POLYETHYLENE FOAM JOINT BACKING ROD**

### **DESCRIPTION**

MAXCEL is a closed cell, circular polyethylene foam profile obtained by continuous extrusion.

### **USES**

MAXCEL is used as backing and depth control filler for expansion or waterproof joints that will be later sealed, between the same or different construction materials.

Under the present state of construction techniques, DIN 18540 standard determines the requirements which joint sealing materials must fulfil. This standard specifies that joint backing materials must have a convex surface. The material must not be hygroscopic, which is why it is advisable that they be closed cell materials. Also, backing materials should not interfere in any way with the changes in shape of the sealing materials.

### **ADVANTAGES**

- Easy to work with because of their low weight.
- Adequate compression resistance allowing good application of the sealing material.
- No water absorption because of its closed cell structure.
- Its higher density superficial layer provides the profile with good mechanical resistance, not hindering its workability.
- Especially appropriate as backing for joints to be sealed with silicones, polysulphides, polyurethanes, polyacrylates, etc.
- In the joints constructed with MAXCEL, the lack of adhesion of the sealing material to the polyethylene makes the stress at the joint appear exclusively perpendicular to the joint, with no stress on the backing.

### **APPLICATION INSTRUCTIONS**

The application of MAXCEL profiles is very simple. The diameter of the section will be chosen keeping in mind that they should be compressed around 25 %, so that once placed in the joint, they are fixed perfectly and do not move when the sealing material is applied.

### **CAUTIONS**

- Do not place MAXCEL using sharp tools which could damage the surface.
- Do not use on MAXCEL sealing materials at temperatures above 70° C, such as molten bituminous fillers.

## TECHNICAL DATA

|  |                |
|--|----------------|
| <b>Apparent density (Kg/m3) (*):</b>                         | 40             |
| <b>Traction resistance lengthwise (Kg/cm2) (*):</b>          | 400            |
| <b>Traction resistance perp. to length (Kg/cm2) (*):</b>     | 310            |
| <b>Elongation lengthwise (%) (*):</b>                        | 15             |
| <b>Elongation perpendicular to length (%) (*):</b>           | 8              |
| <b>Tear resistance lengthwise (Kg/cm) (**):</b>              | 108            |
| <b>Tear resistance perpendicular to length (Kg/cm) (**):</b> | 60             |
| <b>Elasticity (%) (*):</b>                                   | 10             |
| <b>Dimensional stability:</b>                                | Excellent      |
| <b>Resistance to deformation:</b>                            | Good           |
| <b>Thermal stability (°C):</b>                               | From -40 to 60 |
| <b>Water absorption:</b>                                     | None           |

(\*) According to standard ASTM D-1564-71

(\*\*) According to standard ASTM D- 624-71

## STORAGE

Indefinite

## PACKAGING

| <b>Diameter mm</b>   | <b>Length per carton.</b>       |
|--|---------------------------------|
| 6  | 2.500 mts./reel                 |
| 10   | 1.150 mts./reel                 |
| 15   | 550 mts./reel                   |
| 20   | 350 mts./reel                   |
| 25   | 200 mts./reel                   |
| 30   | 160 mts./reel                   |
| 40   | 300 m.l. in 2 mts. pieces       |
| 50   | 200 m.l. in 2 mts. pieces       |
| <b>Dimensions of the box/reel : 550 x 550 x 600 mm.</b>    |                                 |
| <b>Dimensions of the box/pieces : 2050 x 415 x 620 mm.</b> |                                 |
| <b><i>Tolerances in length</i></b>                         | diameter. 40 mm.1,96 - 2,04 mts |
|  | diameter. 50 mm.1,96 - 2,04 mts |

## GUARANTEE

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