TECHNICAL DATA SHEET
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CONSOL BACK ROD

Closed Cell Polyethylene Filler

DESCRIPTION

CONSOL BACK ROD is chemically non-cross linked polyethylene foam with closed cells, expanded 15 or 40 times. It is a light and durable material with excellent shock absorbing and heat insulation properties. Water-repellent and highly resistant to weather-proof and chemical.

RECOMMENDED FOR

CONSOL BACK ROD are used in joints in pre-cast and cast-in-situ concrete elements to give support to the joint sealant application, aid in the correct joint sealant geometry (application depth and shape) and prevent the joint sealant from adhering to the top of the expansion joint filler board (3-way bonding), acting as a bond breaker.
CONSOL BACK ROD can be used for forming the base of vertical and horizontal joints in the following applications:

Size (mm)		Length/ Bundles
Diameter	Joint Size	
8	5 – 6	1000 m'
10	7 – 8	1000 m'
13	9 – 10	500 m'
15	11 – 13	500 m'
20	14 – 17	250 m'
25	18 – 22	200 m'
30	23 – 27	200 m'

BENEFITS

- No water absorption, closed cell
- Excellent weather ability
- No bitumen contents
- Acts as a bond breaker
- Easy to install
- Non toxic, odourless
- Lightweight
- Resistant to ultraviolet light and most chemicals
- Ability to compress and recover
- Suitable for submerged or trafficable joints

PRODUCT DATA

Base
Closed cell polyethylene foam
Color
White
Density
± 37 kg/m^3

Packaging

APPLICATION INSTRUCTIONS

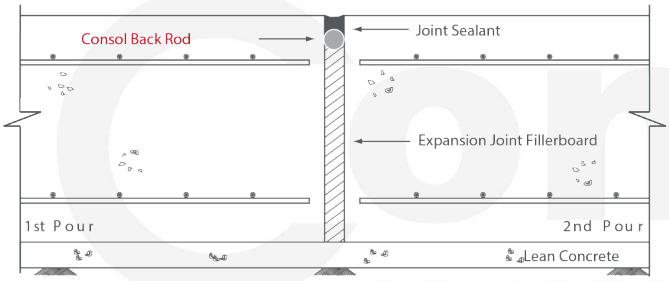
• Choose a diameter or square section which is approximately 20% to 25% bigger than the actual joint size so it can be compressed to fit inside the joint leaving a tight and firm fit. Apply the backer rod to your specified depth for the sealant application.
• When installing the Rod, it is essential to ensure that a blunt instrument is used to avoid cutting or puncturing the surface. Puncturing can cause bubbles to occur in the uncured sealant.
• The rod must be positioned to achieve a uniform and even, predetermined depth without any twists, bumps or gaps.
• During installation avoid excessive longitudinal stretching of the rod.

Consol®
CONCRETE SOLUTION

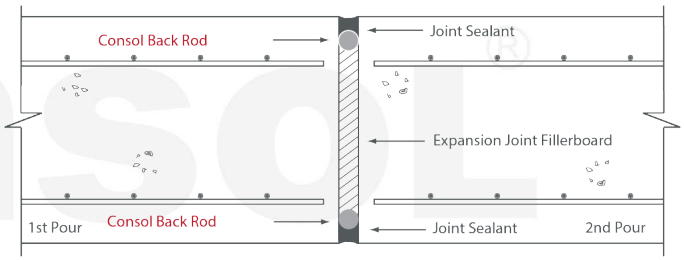
TECHNICAL DATA

Classification	Properties	Test Method	Consol Back Rod
Mechanical Properties	Density Compression strength Dynamic stability rate Tensile strength	KSM 3803 ASTM D-1621 10 - 20	0.035 g/ cm 0.4 kg/ cm 98 % 2.8 kg/ cm
Thermal Properties	Specific heat Heat dislocation temperature Coefficient of linear expansion Thermal conductivity	ASTM-C 351 BS-3837 ASTM D-696 KSM 3808	0.55 Kcal/ kg ^{0}C 80 ^{0}C 17 x 10-5 ^{0}C 0.027 ~ 0.035 Kcal/ m hr^{0}C (20 ^{0}C)
Water Resistance	Water absorption	KSM 3808 ASTM E96-53T	< 0.03 Mg/ cm^2 < 0.01 g/ m^2 hr

Expansion joint in slab on ground



Expansion joint in wall



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