

DIAJOINT

Hydro self-expanded joint for concrete casting joints

Diajoint® is a self hydrophilic joint made of 75% of sodic bentonite and 25% of organic binder. Once in contact with concrete casting, the joints expands, sealing and waterproofing the concrete casting from eventual outside infiltration. Diajoint has a delayed initial expansion even if in direct contact with the water. It does not require a fixing net, it has high resistance, even after the expansion due to water absorption.

BENEFITS

- Remarkable malleability and flexibility
- Excellent swelling power
- High swelling effort with an optimal hydro-seal between concrete elements
- Long lasting
- No need to cover concrete layer: in normal conditions it can be exposed for up to a maximum of 48 hours
- Free from toxic substances: no risk to the applicators
- Suitable for drinking water contact
- VOC free
- Applicable during winter season too (up to +5°C)

APPLICATION FIELDS

Waterproofing of horizontal and vertical and underground concrete casting joints.

YIELD

1,00 m/m.

Calculate the needed quantity depending on the concrete joints length.

Consider a recommended overlap of 10 cm.

COLOUR

Green.

PACKAGING

Dimension	20 x 25 mm
Roll length	5 meters
Number of rolls per box	6

Pallet: - 30 boxes, for 900 m in total.

STORAGE

Store the product in well ventilated areas, away from sun and ice, at temperature between +1°C and +35°C. Storage time: 24 months.

PREPARATION OF SUPPORT

- The support must be completely hardened, dry and resistant enough.
- The surface must be thoroughly clean, smooth, well consolidated, without dust, debris or detaching parts. Eventually brush the surface eliminating powder and remaining residues.
- Substrate temperature must be between +5°C and +35°C.

APPLICATION

Apply *DiaJoint®* in the middle of the joint. For casting with a thickness higher than 20 cm, leave a distance of about 8 cm both from the external reinforcement and from the internal one, in order to absorb the pressure exerted by the expansion. For a perfect fixing, *DiaJoint®* must be nailed every 30 cm; in this way the band will remain firmly fixed during cement application.

Join perfectly the ends of the single rolls, or slide them parallel for a distance of at least 10 cm.



For application video, product page, safety data sheet and other information.

Waterproofing - bentonite

Whereas all indications and recommendations supplied herein are stated to the best of our experience and knowledge, they should nevertheless be considered as indicative only and should be confirmed by exhaustive practical applications. Therefore, before using this product, we recommend in any case to perform preliminary tests with the purpose of verifying the complete suitability for the intended use. In case of uncertainties and doubts contact our technical office. This sheet supersedes any other previously released.

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Technical Data

Features		Units
Yield	1,10 m/m. Calculate the needed quantity depending on the concrete joints length	m/m
Aspect	Rubber joint	-
Colour	green	-
Specific weight	1,65±0,01	g/cm ³
Application temperature	+5 /+35	°C
Drying time (T=20°C; R.H. 40%)	It does not drying	hours
Working temperature	-15 /+50	°C
Packaging	Dimension 20 x 25 mm Roll length 5 meter Rolls quantity per packaging 6	-

Final performances		Units	Regulations	Results
Expansion in water after 14 days	>425%	-	-	-
Swelling with impeded expansion	1,43	N/mm ²	-	-
Elongation until break	141%	-	ASTM D638	-
Tensile strength at break	0,31	MPa	ASTM D638	-
Suitability to drinking water contact	Suitable	-	D.M. 174/2004 D. Lgs. 31/2001	Suitable

SUGGESTIONS

- Do not use at temperature lower than -15°C and higher then +35°C.
- Although *Diajoint*® is supplied with an anti-expansion covering, do not apply with imminent threat of rainwater or ice, with strong fog or high humidity (puddle) to avoid an early expansion.
- Do not use as expansion joint.

CLEANING

Wash tools with water.

SAFETY

For the handling see product safety data sheet.

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