

VELOSIT® DB 830

Joint Sealing Tape

Application fields

VELOSIT DB 830 is a waterproof joint sealing tape used for waterproofing of construction and expansion joints. Typical application fields besides others are as follows:

- Waterproofing of construction joints between different concrete pours
- Waterproofing of cracks
- Waterproofing of pipe penetrations
- Waterproofing of the wall-slab joint
- Waterproofing of expansion joints
- Waterproofing of interfaces between substrates with different expansion behaviour

Properties

VELOSIT DB 830 is a highly flexible joint sealing tape with good resistance against hydrostatic pressure. It is applied with a suitable adhesive over cracks, construction or expansion joints.

- > 100% tensile elongation
- Minimal thickness makes it an especially suitable substrate for tile applications
- Resists 50 m (160 ft.) water pressure acc. to EN 12390-8
- Good chemical resistance against many typical media
- UV stable

Application

1.) Substrate preparation

VELOSIT DB 830 is suitable for all cracks and joints in substrates that are limited to a max. movement of 0.5 mm (20 mils). VELOSIT DB 830 is only suitable against positive side water pressure.

Substrate must be prepared with sand blasting, shot blasting or ideally high pressure water blasting (>100 bar/1450 psi) to remove all bond breaking substances. Substrate must be open porous and load bearing. The minimum requirement for adhesive strength is 1.5 MPa (218 psi) and for the compressive strength 25 MPa (3625 psi). Lower strength values can be accepted if lower adhesive

strength is acceptable. This is for example on gypsum boards or gypsum fiber boards the case. Active water leaks must be treated and fully stopped with VELOSIT PC 221. Leaking cracks need to be sealed with a PU injection material. Blowholes, honeycombs or other surface defects can be filled with VELOSIT WP 101 or the repair mortar VELOSIT RM 202. Before the application of VELOSIT DB 830, dampen the substrate with clean water to a saturated surface dry (SSD) condition.

2.) Processing

All joints and cracks with more than 6 mm (¼") width must be filled with a backer rod or a flexible joint material before the installation of VELOSIT DB 830.

a.) Adhesion with VELOSIT DK 701: Mix a suitable amount of adhesive and apply a mortar bed matching the width of the joint tape with a 4 mm (3/16 ") notched trowel above the crack or joint. Push VELOSIT DB 830 immediately into the fresh mortar bed and smoothen with a trowel. Excessive adhesive may be used to smoothen the height difference between substrate and joint tape. Adhesive is cured after approx. 1 hour.

b.) VELOSIT WP 120 or 121 may also be used as an adhesive following the same procedure as described under a.). Consider a little longer curing times.

c.) Pipe penetrations are waterproofed with a sleeve made from VELOSIT DB 830. Cut a hole into the

sleeve with a diameter approx. 6 mm (¼") smaller than the pipe. The sleeve is made from a 12 cm (5") piece of VELOSIT DB 830. Brush plenty of VELOSIT WP 120 or 121 onto the pipe and the surrounding area. Pull the sleeve over the pipe push it with a trowel into the material. Work away from the pipe and take care not to entrap air or create wrinkles.

3.) Curing

VELOSIT DB 830 does not require curing. It may be over coated with the waterproofing as soon as the adhesive has set.

Estimating

The required amount is calculated with the planned length of the joint or crack waterproofing.

Cleaning

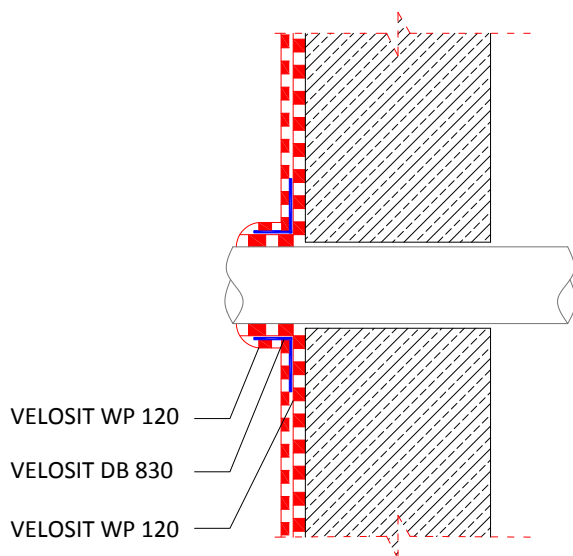
VELOSIT DB 830 does not cause any dirt. Dirty material can be cleaned with a moist cloth.

Quality features

Color:	blue
Dimensions:	120 mm (4.75") 200 mm (8")
Weight, 120 mm:	0.036 kg/m (0.072 lb./yd)
200 mm:	0.060 kg/m (0.12 lb./yd.)
Substrate temperature:	5 – 35°C (40-95°F)
Water impermeability acc. EN 12390-8:	- Positive side: 5 bar (73 psi)
Tensile elongation:	300%

Packaging

VELOSIT DB 830 is supplied in rolls á 50 m (163').
120 mm (4.75") width: Each roll is packaged separately.
200 mm (8") width: 6 rolls are packaged in a box (approx. 18 kg/40 lbs.).



Storage

VELOSIT DB 830 can be stored in unopened original packs for 5 years at 5-35°C (40-95°F) in a dry storage place protected against sunlight.

Safety

Please observe the actual valid material safety data sheet and follow the described safety measures for handling of the product.

Used product containers must be emptied completely after use. They can be returned to VELOSIT GmbH & Co. KG on request.

Recommendations

VELOSIT DB 830 is only available for professional applicators.

All described product features are determined under controlled laboratory conditions according to the relevant international standards. Values determined under job site conditions may deviate from the stated values.

Please always use the latest version of this data sheet available from our website www.velosit.de.

Effective date

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Manufacturer

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