VELOSIT® BL 151

Bitumen Latex

Application fields

VELOSIT BL 151 is a bituminous waterproofing for concrete and masonry. Typical application fields besides others are as follows:

- Dampproofing of basements
- Waterproofing against rising dampness in walls
- Protection of foundations
- Protection of in ground water tanks

Properties

VELOSIT BL 151 is a elastomeric, crack bridging polymer enhanced bitumen emulsion.
VELOSIT BL 151 creates a very flexible coating on the substrate.

VELOSIT BL 151 can be applied by brush, roller or suitable spray equipment.

- Resists 15 m (40 ft.) water pressure acc. to EN 12390-8
- Easy to apply
- Ready for water pressure after 24 h
- Very good adhesion to concrete and masonry
- Good resistance against aggressive media with a pH range of 3-12 and against soft water with low ion content
- Good sulfate resistance

Application

1.) Substrate preparation

VELOSIT BL 151 is designed for mineralic substrates like concrete, masonry or absorptive natural stones.

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. 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 the repair mortar VELOSIT RM 202.

2.) Processing

a.) Brush application: Apply one coat of VELOSIT BL 151 with a masons brush or roller in crossing applications to the dry substrate at the specified rate. A second coat can be applied after the first one has gained sufficient strength which is after 3 hours at 23 °C. Colder temperatures extend, warmer temperatures shorten the recoat time.

b.) Spray application: Use suitable spray machines such as:
- Inotec GmbH: INOMAT-M8
- HighTech GmbH: HighPump Small
- Desoi GmbH: Desoi SP-Y

Fill the product into the feed hopper of the spray machine and spray continuously. VELOSIT BL 151 can be applied in one lift if specification allows.

3.) Curing

VELOSIT BL 151 does not require curing as it dries relatively fast on the substrate. Protect against rain or condensation until it has fully cured.

Estimating

Brush application 0.6 mm:
VELOSIT BL 151: 1.0 kg/m²

Spray application 0.6 mm:
VELOSITBL 151: 1.0 kg/m²

Cleaning

VELOSIT BL 151 can be removed in the fresh state with water. Once it has cured solvents like naphtha are required.

Quality features

Color:	brown
Density:	1.0 kg/l
Substrate temperature:	5 – 50 °C (40-120°F)
Water impermeability acc. EN 12390-8:	
- Positive side:	1.5 bar (22 psi)
- Negative side:	not suitable
Carbonation resistance:	passed
Capillary water absorption:	0.1 kg/m² x $h^{0,5}$
Fire rating EN13501-1:	Class E

Packaging

VELOSIT BL 151 is available in 30 kg (66 lb.) pails or 1000 kg IBC containers.

Storage

VELOSIT BL 151 can be stored in unopened original packs for 12 months 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.

Recommendations

VELOSIT BL 151 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.

Manufacturer

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