NEXLER BITFLEX Anionic Emulsion

Bituminous - latex anionic emulsion

Innovative technology, based on a fine-particle anionic emulsion

TECHNICAL DATA

Composition	water-based emulsion of asphalts, rubbers and performance additives
Bulk	1,01 g/cm³
Drying time	approx. 5 h
Resistance to rain	approx. 2 h
Backfilling the excavation	after 2 - 3 days, no later than after 3 months
Dilution capacity of the emulsion in water	no less than 300% (*V/V*)
Content of non-emulsified ashpalt	no more than 1,2% (*m/m*)
Flowability of the coating from the roofing felt in the vertical position at the temperature 75 °C for 5 h	does not flow
Permeability of the coating at 500 mm water column in 24 h	unacceptable
Consumption: - priming	approx. 0,3 kg/m² per layer approx. 1,5 kg/m²
Application temperature	from +5°C to +30°C
Reference document(s)	PN-B-24002:1997; PN-B-24002:1997/Ap1:2001

PROPERTIES

- Ready-to-use
- Easy and quick to use
- Very efficient
- Perfect adhesion to proper prepared mineral surfaces
- Increased resistance to UV radiation
- Eco-friendly, does not contain solvents or toxic substances
- Safe for use in contact with polystyrene
- Resistant to substances naturally contained in the soil
- Provides deep penetration into the substrate

APPLICATION

- Anti-corrosion and moisture protection for concrete and reinforced concrete prefabricated elements such as retaining walls, concrete circles, foundation beams, cable chambers, road culverts, etc.
- Priming of mineral substrates (also with reduced absorbency) for proper bituminous insulation
- Damp-proofing of underground and ground-level parts of buildings

PACKAGING

Poland

- Bag in box: 1000 kg

Export

- Bag in box: 1000 kg

METHOD OF APPLICATION

CONDITIONS OF USE

The temperature of the substrate and air during the works should be from +5°C to +30°C.

Works should not be carried out during precipitation and strong sunlight.

SUBSTRATE PREPARATION

The surface must be properly prepared before applying **BITFLEX Anionic Emulsion**. The substrate intended for product application must be continuous, bonded, seasoned and load-bearing. If the substrate is contaminated with petroleum-based agents, these must be removed effectively. The surface should be cleaned mechanically, dust, tarnish, any loose pieces and layers, sharp protruding edges and impurities that worsen adhesion should be removed. If there are cavities in the substrate (honeycombing, gravel pockets and other unevenness), it should be repaired, filled and levelled. A suitable levelling mortar should be used to repair cavities. **BITFLEX Anionic Emulsion** can be used on a dry or slightly damp substrate. A damp substrate prolongs the setting time.

Edges and corners: The exterior right angles should be chamfered (bevelled), while the interior angles should be properly rounded by making facets. On mineral substrates, a facet can be made of mineral mortar e.g. NEXLER RENOBUD R 103 (radius 4 - 5 cm) or PMBC (KMB) compound e.g. NEXLER BITFLEX 2KP (radius 2 cm). On bituminous substrates make a facet of PMBC (KMB) compound. A cat's tongue trowel is best suited for creating facets.

PRODUCT CONTROL

Check the production date on the packaging before use. The product should not be incorporated beyond its shelf life. The product should not be objectionable (e.g. have lumps, fibres, discolouration) after opening. After mixing, the product should be homogeneous and free of lumps and clumps. Do not use a product that bears signs of freezing. The correct consistency of the product is not dry or rubbery. When properly mixed and applied, the product does not form a layer on the surface, but penetrates into the substrate.

PRODUCT PREPARATION

Priming: Before use, **BITFLEX Anionic Emulsion** should be diluted with water in a ratio of 1:1 (emulsion : water) to 1:3 (depending on the absorbency of the substrate).

Damp-proof insulation: **BITFLEX Anionic Emulsion** is a ready-to-use product. Stir thoroughly before use, and repeat mixing from time to time during application.

APPLICATION METHOD

Priming: Apply the diluted product with a brush or roofing brush by rubbing it into the prepared substrate.

Damp-proof insulation: The **BITFLEX Anionic Emulsion** product can be applied with a brush, roofing brush, roller, spray equipment. It is recommended to apply **BITFLEX Anionic Emulsion** in two working applications. Each operation should take place after the previous layer has dried. The working surface of the created coating must end and start beyond the concave or convex edge, a minimum of 30 cm from the edge.

The excavation can be backfilled after the coating is fully dried. In order to protect the insulation coating against mechanical damage (e.g. while backfilling the excavation), it is recommended to cover it e.g. with geotextile, HDPE foil or polystyrene hardboards.

CONTROL OF PERFORMANCE

When fresh, check the consumption of the material per unit and/or dedicated area on an ongoing basis.

A properly primed surface, after the solution has dried, should have a uniform colour, without streaks and discoloration.

Properly made damp-proof insulation, after drying, should be a uniform, clean coating, without blisters, flakes and other defects, the coating should adhere closely to the primed substrate.

TOOLS AND TOOL CLEANING

Low-speed mixer, paint brush, roofing brush.

Use pumps for spray application, e.g. WAGNER HC 970 or Inotec InoBeam M8 type.

Wash tools with water during work and after its completion, and wipe dry. If the product dries, clean with organic solvents or mechanically. Clean the spray equipment immediately after work, according to the equipment manufacturer's recommendations.

STORAGE AND TRANSPORT

The shelf life of the product is 12 months from production date specified on the packaging. Store in dry and cool rooms, at temperature above +5°C, in tightly sealed, original packaging. The product must be protected from heat and direct sunlight.

NOTES

Works should be carried out in accordance with technical conditions, manufacturer's instructions, health and safety standards and regultions.

For information on how to deal with symptoms of disease, allergies or irritation of the skin or eyes, please refer to the Safety Data Sheet (www.nexler.com).

The remaining content of the product and container should be handed over to authorized companies.

GENERAL RECOMMENDATIONS

Technical data and information on the method of use are given for a temperature of 23°C ± 2°C and a relative air humidity of 55%. In other conditions, the setting (drying) time may change significantly.

The consumption of the product given in this sheet depends on the preparation of the substrate.

Do not use for tar materials.

With spray application, material consumption is also dependent on wind conditions and the ability to spray the mass around the insulated component

SAFETY INFORMATION

May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Wash hands and exposed parts of the body thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste.

IMPORTANT INFORMATION

Please refer to the detailed conditions of use of the product before use.

We guarantee the quality of our materials as part of our terms of sale and delivery. For buildings with special requirements that are not covered by this manual, we provide our Customers with our own professional advisory service.

The manufacturer has no influence on the improper use of the material, its use for other purposes or under conditions other than those described above. The guarantee only covers the quality of the delivered product. The correct and therefore effective use of the product is not subject to our control.

Neither the manufacturer nor his authorized representative may be held liable for any loss incurred as a result of improper use or storage of the product.

Employees of the company are authorized to provide technical information only and solely in accordance with this Technical Data Sheet. Information other than that contained in this sheet should be confirmed in writing.

If you have any doubts, consult the manufacturer.

CONTACT DETAILS

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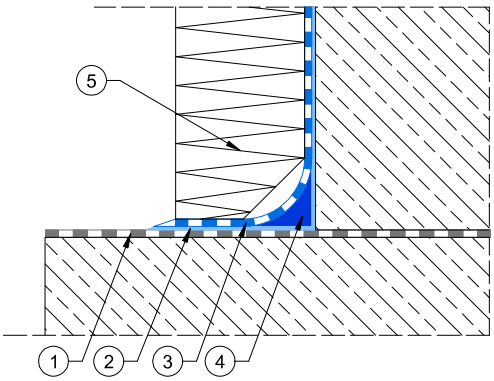
ISSUE DATE

This Technical Data Sheet was issued on 20.01.2025.

Once we have issued a new Technical Data Sheet, this one is no longer valid.

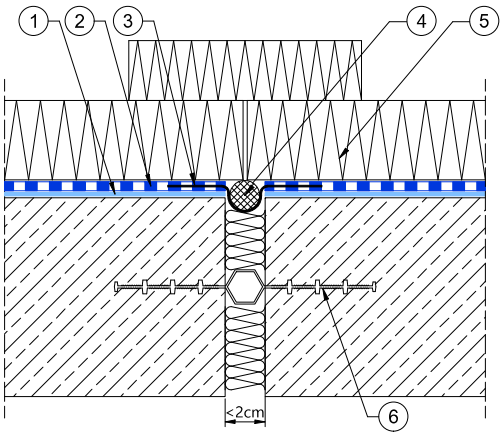
DETALE

Detail of footing and foundation wall connection – damp-proof insulation



1. Horizontal insulation made of bituminous felt
2. Priming layer of **NEXLER BITFLEX Anionic Emulsion**
3. Damp-proof insulation **NEXLER BITFLEX Anionic Emulsion**
4. A facet made of NEXLER BITFLEX 1KP with a radius of 2 cm
5. Polystyrene and laminated polystyrene boards, bonded by NEXLER BITFLEX 1KP

Detail of an expansion joint – damp-proof insulation



1. Priming layer of **NEXLER BITFLEX Anionic Emulsion**
2. Damp-proof insulation **NEXLER BITFLEX Anionic Emulsion**
3. NEXLER Sealing Tape
4. NEXLER Backer Rod
5. Polystyrene and laminated polystyrene boards, bonded by NEXLER BITFLEX 1KP
6. Sealing insert