NEXLER WK

Asphalt-rubber binder

TECHNICAL DATA

Composition	aqueous emulsion of asphalts, rubbers and performance additives
Water content in mass	no more than 60% (*m/m*)
Vertical flowability of the coating, - within 5 h - at temperature 100 °C	does not flow
Flexibility of the coating at temperature -10 °C, when bending on a roller with a diameter of 30 mm	no scratches or cracks
Permeability of coating at 1 000 mm water column in 48 h	unacceptable
Coat formation time	no later than 6 h
Adhesion of polystyrene foam to concrete	not less than 250 kPa
Ability to bond bituminous felt to bituminous felt	not less than 400 N
Backfilling the excavation	after 3 - 7 days
Application temperature	from +10°C to +25°C
Consumption	0,8 - 1,3 kg/m²
Reference document(s)	PN-B-24000:1997

PROPERTIES

- Ready-to-use
- Quick and easy to use
- Excellent adhesive properties
- Very good adhesion to mineral substrates
- Eco-friendly, does not contain solvents or toxic substances
- Safe in contact with polystyrene foam

APPLICATION

- Bonding of EPS and XPS polystyrene boards
- Bonding of polystyrene boards laminated with bituminous felt on one or both sides
- Bonding of bituminous felt to polystyrene foam
- Bonding asphalt felt to concrete substrates and to each other in multi-layer waterproofing systems
- Bonding of hard mineral wool boards
- Vertical damp proofing of foundation walls

PACKAGING

Poland

- Packaging: 10 kg
- Quantity per pallet:
  - 10 kg - 60 pcs.

Export

- Packaging: 10 kg, 20 kg
- Quantity per pallet:
  - 10 kg - 60 pcs.
  - 20 kg - 33 pcs.

METHOD OF USE

CONDITIONS OF USE

The temperature of the substrate and air during the works should be from +10°C to +25°C.

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

SUBSTRATE PREPARATION

The surface must be properly prepared before applying **NEXLER WK**. The substrate intended for product application should be continuous, bonded, seasoned and load-bearing. If the substrate is contaminated with petroleum-based agents, these must be removed effectively. The substrates should be cleaned mechanically, dust, tarnish, any loose 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, the substrate should be levelled and repaired, the cavities should be filled. On jointed masonry - a levelling plaster should be applied. **NEXLER WK** can be used on a dry or slightly damp substrate. A damp substrate prolongs the setting time.

Prime the prepared substrate with a NEXLER BITFLEX Primer solution. Do not allow dirt on the priming layer.

NEXLER WK can be applied over existing coatings of dispersion bitumen compounds following prior preparation and priming.

Clean steel surfaces of rust and flaking paint coats, then degrease.

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. BITFLEX 1KP (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. lumps, fibres, discolouration) after opening. After mixing, the compound should be homogeneous and free of lumps and clumps resulting from under-mixing. Do not use a product that bears signs of frostbite. The correct consistency of the product is not dry or rubbery. When properly mixed, the product forms a homogeneous coating when spread over the surface with a tool.

PRODUCT PREPARATION

NEXLER WK is a ready-to-use product. Before use, the product should be mixed until a homogeneous mass is obtained. Repeat mixing from time to time during application.

APPLICATION METHOD

Damp-proofing of underground parts of structures: NEXLER WK is recommended to be applied on a primed substrate. The next layer can be applied after the previous one has fully dried. The total thickness of a dry layer should be at least 1 mm. Apply material by hand, using a paint brush or a roofing brush.

The freshly applied coating must be protected from strong sunlight (e.g. by shading), flooding, rain and negative temperatures. Do not allow rainwater to penetrate the partition or go under the waterproofing layer from the substrate side.

Backfilling the excavation: The time for the waterproofing to cure completely, allowing the excavation to be backfilled, is 3 to 7 days. After curing, the waterproof coating should be protected against mechanical damage associated with backfilling the excavation. Therefore, it is recommended to use additional protection in the form of waterproof thermal insulation boards, PE, EPDM film or non-woven fabric. Dimpled foils should not be used to protect compounds due to the fact that dimples, under soil pressure, may locally press on the coating and damage it. The exception being profiled films with an integrated filtering non-woven fabric.

Bonding of thermal insulation boards to foundation walls: Hydrophobized insulation boards should be sanded before bonding. Apply **NEXLER WK** compound in spots on thermal insulation boards (8 - 10 palm-sized spots per a 0,5 m² board). Then wait approx. 20 minutes (depending on the temperature conditions) before bonding the board. A sign that the waiting time was too long is a change in the colour of the compound from brown to black. After the wait, the boards should be applied and firmly pressed against the even substrate. Start the bonding from the bottom of the excavation. Thermal insulation boards are recommended to be supported on the footing offset and, if this is not possible, to be supported during bonding. Backfilling the excavation can be done after 3 - 7 days, after full bonding properties of the compound are obtained. When bonding thermal insulation boards in the plinth zone, it is recommended to attach them mechanically due to the possibility of non-standard loading of the wall – plinth, e.g. with a facade plate. Do not close the space between the polystyrene and the foundation wall tightly. During rain, the uncured compound should be protected from rainwater by covering the gap between the polystyrene foam and the wall.

Bonding of insulation and thermal insulation materials to sheet metal, concrete, bituminous felt substrates: Apply **NEXLER WK** compound in spots to polystyrene boards or mineral wool (6 - 8 palm-sized spots per a 0,5 m² board). Then wait approx. 20 minutes (depending on the weather conditions) before bonding the board. After waiting, press the boards firmly and precisely onto the substrate.

Note: In the case of thermal modernisation of a roof, the surface area and adhesive consumption depend on the roof zone. In the central zone, the application of adhesive occupies an area of 25% of the board, in the edge zone 35% of the board, in the corner zone 50% of the board. When bonding to trapezoidal sheet metal, the adhesive should always be applied to the top element of the sheeting.

Bonding the underlayer bituminous felt to the thermal insulation board: Apply **NEXLER WK** compound using 8 cm wide strips in an amount of 4 to 6 per 1 m of board width or approximately 2 mm thick spots (6 - 8 spots per a 0,5 m² board). Wait approx. 15 - 20 minutes (depending on the weather conditions) and press down the board firmly.

It is not permissible to apply bituminous felt "from a roll". The sheets of underlayer bituminous felt are glued together with overlaps. Cut sheets 10 cm larger than the size of the thermal insulation board. Weld the top layer bituminous felt to the underlayer bituminous felt no sooner than two days later. Full strength properties are obtained after 10 days.

- **CONTROL OF PERFORMANCE**

Thickness of a layer should be checked by material consumption control on a dedicated surface. In addition, it is recommended to measure the thickness of the freshly applied sealing layer with special inspection plates, the measurement point should be filled with putty immediately.

After it has dried, a properly made coating should be a uniform, clean coating, without peeling and other defects. The coating should adhere closely to the primed substrate.

When bonding the boards, the quantity, size and thickness of the applied strips or spots should be controlled.

TOOLS AND TOOL CLEANING

Low-speed stirrer, float, brush, roofing brush.

Wash tools with water during work and after its completion, and wipe dry. If the product dries, clean with organic solvents or mechanically.

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 regulations.

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).

After work 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. Do not use for bonding bituminous felt with a cardboard warp.

It is not recommended to use **NEXLER WK** on building elements exposed to negative water pressure, as this may lead to separation of the insulating layer or formation of blisters on it. In places where such water pressure is expected to occur, a sealing layer of NEXLER AQUAMINERAL 1K Ultra sealing micromortar should be applied.

SAFETY INFORMATION

May cause an allergic skin reaction. 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 manufactureror 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.

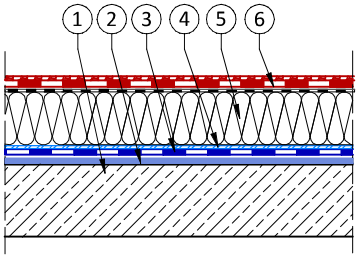
Once we have issued a new Technical Data Sheet, this manual is no longer valid.

CONTACT DETAILS

NEXLER sp. z o.o.
Łużycka 6, 81-537 Gdynia, Poland
tel.: +48 58 712 94 44
www.nexler.com
e-mail: dt@nexler.com

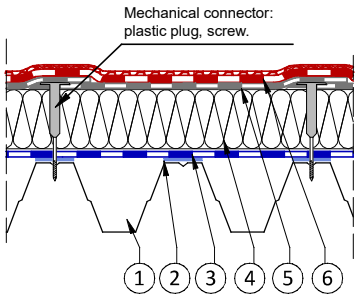
DETAILS

Detail of waterproofing on an insulated roof on a concrete substrate



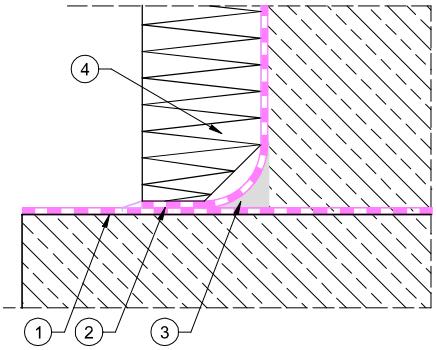
1. Concrete substrate
2. Priming layer of NEXLER BITFLEX Primer
3. Vapour barrier NEXLER Alu S40
4. Adhesive and waterproofing compound **NEXLER WK**
5. Thermal insulation
6. Weldable top layer bituminous felt
   NEXLER PREMIUM PYE PV250 S53H

Detail of waterproofing on an insulated roof on a sheet metal substrate



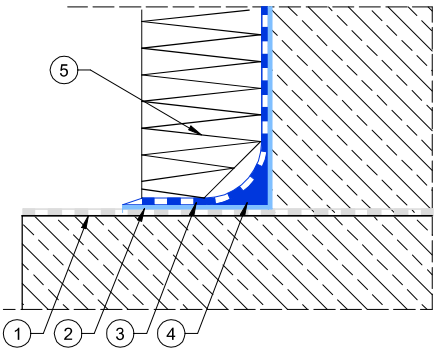
1. Folded sheet metal on a steel structure
2. Vapour barrier made of weldable bituminous felt
3. Thermal insulation bonded by **NEXLER WK**
4. Weldable underlayer bituminous felt
5. Weldable top layer bituminous felt

Detail of joint between footing and foundation wall - variant 1



1. Horizontal waterproofing NEXLER AQAMINERAL 1K Ultra
2. Vertical waterproofing NEXLER AQAMINERAL 1K Ultra / NEXLER AQUAMINER 2K Ultra
3. A facet made of mortar NEXLER RENOBUD R 103 with a radius of 5 cm
4. Polystyrene boards bonded by **NEXLER WK**

Detail of joint between footing and foundation wall - variant 2



1. Horizontal insulation made of bituminous felt
2. Priming layer NEXLER BITFLEX Primer
3. Waterproofing NEXLER BITFLEX 1KP
4. A facet made of NEXLER BITFLEX 1KP mass with a radius of 2 cm
5. Polystyrene boards bonded by **NEXLER WK**