NEXLER RR

Cold applied mineral-asphalt mix for partial repairs of road pavement

TECHNICAL DATA

Composition	mix of asphalts, natural aggregates and organic solvents
Appearance	homogeneous mix, workable, black in colour, all aggregate grains coated with binder
Grain size	G_F85
Grain size tolerance	deviation not greater than $G_{TC}NR$
Dust content	category not higher than f_{10}
Dust quality	category not higher than MB_F10
Aggregate angularity	category not lower than $E_{CSDeclared}$
Grain density	2800 ± 5% kg/m³
Workability at a temperature of 5°C	workable mix
Gran size diameter from crushed aggregate	0 to 8 mm
Grain size, content of grains passing through the sieve:	

Grain size [mm]	Content of grains passing through the sieve [%]
11,2	100
8,0	85 - 100
5,6	40 - 75
2,0	15 - 25
0,125	2 - 12
0,063	0 - 6

Soluble binder content remaining after evaporation of the volatile parts	4,0 ÷ 6,0% *(m/m)*
Density	approx. 2,65 g/cm³
Free space content	< 25% *(v/v)*
Penetration with an inspection stamp	≤ 2 mm
Adhesion of binder to aggregate	≥ 80%
Application temperature	from -20°C to +40°C
Consumption	approx. 2,2 t/m³ approx. 2,2 kg/dm³
Reference document(s)	IBDiM-KOT-2024/1069 issue 1 from 2024

PROPERTIES

- Ready-to-use
- For cold application
- Can be used in a wide temperature range
- Compacted manually or mechanically
- Use of the pavement immediately after application

USED IN A WIDE TEMPERATURE RANGE

APPLICATION

- Partial repairs of asphalt and concrete pavements
- Filling in defects and potholes in pavements
- Filling in areas after installation work
- Filling in expansion joints, local levelling or profiling of road pavements, sidewalks and metal elements in the pavement structure (e.g. manholes, level crossings)
- Construction of ramps - creating smooth transitions between pavement and curb

HORIZONTAL

OUTDOOR USE

PACKAGING

Poland

- Bags: 25 kg
- Quantity per pallet:
  - 1000 kg - 40 pcs.

Export

- Bags: 25 kg
- Quantity per pallet:
  - 1000 kg - 40 pcs.

METHOD OF USE

- **CONDITIONS OF USE**

Works should not be carried out during precipitation. Do not use the product inside rooms intended for human occupation and food industry or for tar materials. Use in an airy area, away from fire.

- **SUBSTRATE PREPARATION**

Trim the edges of a defect (hole) vertically and level the bottom. The defect should be in a shape of a simple geometric figure, e.g. a cuboid. The substrate under **NEXLER RR**, should be thoroughly cleaned of loose pavement fragments, aggregate, debris and other contaminants. Do not apply the product to frozen/frosty surfaces. Dry the substrate to bring it to an air-dry state before applying the mineral-asphalt mix. Prime the bottom and sides of the defect with NEXLER Penetrator G7 or NEXLER BITFLEX Primer.

- **PRODUCT CONTROL**

Check the production date on the packaging before use. Bear in mind that, once the mix has been poured out of the bag, it is necessary to break down all the clumped pieces so as to obtain a homogeneous (loose) product structure.

The temperature of the mix must not be below 5°C in order to obtain the proper workability. During periods of reduced temperatures, store the product in a heated space for at least 24 hours before use.

- **PRODUCT PREPARATION**

NEXLER RR is a mix ready to be cold-applied to the cavity. Breaking down of any clumped pieces can be done with a rake. Slight movement of loose aggregate fractions during mechanical breakup is characteristic of a properly prepared mix. This phenomenon, which can be referred to as particle shifting, is desirable and indicative of a correct structure of the material.

- **APPLICATION METHOD**

Depending on the depth of the defect, **NEXLER RR** should be incorporated in stages. Each layer must be properly compacted. During compaction, the thickness of a single layer decreases; therefore, the thickness of the layer before compaction should be approximately 20% greater. Thickness of a single incorporated layer after compaction should range between 2,5 and 4 cm. The maximum thickness of all layers jointly may not exceed 15 cm. If the pavement defect exceeds this depth, use a material similar in performance to the structure to be filled in at the bottom of the defect. The last incorporated layer, after compaction, should extend 1 mm to 3 mm above the surface of the existing pavement.

Depending on the size of the defects, **NEXLER RR** should be compacted with a vibrating plate or hand tamp until a stable layer is obtained.

The incorporated final layer of the mineral-asphalt mix should be sprinkled with crushed sand of 0 - 2 mm grain size or 0 - 4 mm grain size in order to prevent the mix from sticking to car wheels. It is especially recommended to use a sprinkle in high temperatures. The edge between the incorporated mix and the pavement can be primed before applying the sprinkle to improve the bond between the materials and increase the durability of the repair.

Vehicular traffic is permitted immediately after the pavement repair.

- **CONTROL OF PERFORMANCE**

Once applied, the product should fill the substrate defect and not detach from the created pavement. The surface of the last compacted layer should extend 1 to 3 mm above the surface level of the pavement.

The repair done using **NEXLER RR** mix is temporary with a durability of up to 6 months. The durability of the repair is mainly influenced by the quality of substrate preparation and the quality of compaction.

TOOLS AND TOOL CLEANING

Spade, rake, vibrating plate, hand tamper.

Clean tools with agents intended for removing asphalt and bituminous compounds.

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. Do not allow long exposure to high temperatures or sunlight during storage and transport.

The bagged mix should be stored flat, in heaps or on pallets, stacked in a maximum of five layers. Prolonged storage of open packaging can cause the mix to harden, making it unsuitable to be used again.

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 works are finished, hand over the remaining content of the product to authorised 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%.

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

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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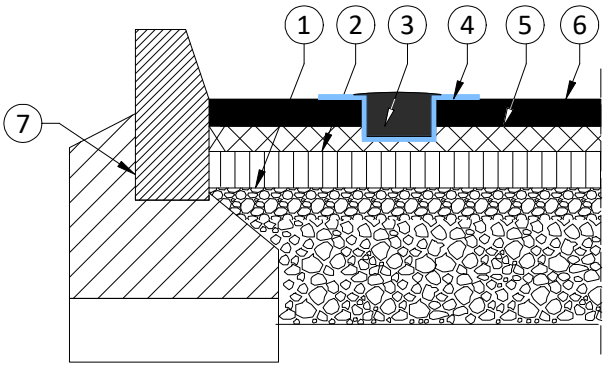
ISSUE DATE

This Technical Data Sheet was issued on 27.10.2025.

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

DETAILS

Detail of pavement at curb



1. Subbase of aggregate not bound hydraulically
2. Roadbase
3. **NEXLER RR**
4. Bituminous primer NEXLER BITFLEX Primer
5. Binder course
6. Wearing course
7. Concrete curb