



# NEXLER EPOLIS WE 300

## Epoxy water-dispersion mattifying coating

### TECHNICAL DATA

<b>Composition</b>	epoxy resin, water, hardener, filler, mattifying agent, additives
<b>Density</b>	component A - 1,26 g/cm <sup>3</sup> component B - 1,14 g/cm <sup>3</sup>
<b>Mixing ratio</b>	1 : 0,20 by weight (component A : component B)
<b>Open time:</b>	
- at +10°C	2 h
- at +20°C	30 min
- at +25°C	20 min
<b>Coefficient of thermal expansion</b>	< 3000 mg
<b>Capillary absorption and permeability to water</b>	< 0,1 kg/m <sup>2</sup> × h <sup>0,5</sup>
<b>Impact resistance</b>	Class 1
<b>Adhesion strength by pull off test</b>	≥ 2,0 (1,5) <sup>a</sup> N/mm <sup>2</sup>
<b>Reaction to fire</b>	B <sub>fl</sub> -s1
<b>Pedestrian traffic load:</b>	
- at +10°C	after 4 days
- at +20°C	after 2 days
- at +25°C	after 1 day
<b>Full load:</b>	
- at +10°C	after 10 days
- at +20°C	after 7 days
- at +25°C	after 4 days
<b>Consumption</b>	0,15 ÷ 0,3 kg/m <sup>2</sup> per layer
<b>Application temperature</b>	from +10°C to +27°C
<b>Reference document(s)</b>	EN 1504-2:2004

### PROPERTIES

- Easy application
- Very good adhesion to concrete
- High resistance to abrasion
- Increases the chemical resistance of substrates
- Vapour-permeable
- Meets high hygiene standards
- Solvent-free
- Water-dilutable
- Enables obtaining a surface that is durable, aesthetically pleasing and easy to clean
- Can be used on damp substrates (with a max. moisture content of 10%)



SOLVENT-FREE



VAPOUR-PERMEABLE



MATTING

### APPLICATION

- For coat mattifying floors made of epoxy resins
- For protecting mineral substrates



VELOUR ROLLER



BRUSH

### PACKAGING

#### Poland

- Packaging: 5 kg
- Quantity per pallet:  
- 5 kg - 60 pcs.

#### Export

- Packaging: 5 kg
- Quantity per pallet:  
- 5 kg - 60 pcs.

## METHOD OF USE

### ▪ **CONDITION OF USE**

The work should be carried out at an ambient temperature of +10°C to +27°C, with a maximum relative humidity of 70%. Higher temperature and humidity will accelerate the setting time of the mixture. At lower temperatures, a delay in setting is to be expected, as well as a change in the consistency of the material and as a result of that an increase in consumption.

Failure to provide adequate conditions for the work may result in uneven mattifying of the floor and, in the case of slower bonding time, the formation of permanent surface staining.

The temperature of the substrate and the uncured flooring must always be at least 3°C above the dew point temperature, from the commencement of work until the material is fully cured.

The premises where the work takes place must be sectioned off, protected from unauthorised access and a safety zone must be maintained against the use of open flames, particularly before conducting welding work. During the works, very good ventilation of the work area should be ensured.

### ▪ **SUBSTRATE PREPARATION**

The concrete substrate must be made of concrete of min. C20/25 grade, with a strength of at least 1,5 MPa measured by the pull-off method. The substrate must be stable, continuous, even, bonded, seasoned, with a moisture content of max. 10%. It must be clean and free of oil, grease, cement laitance and other substances that impair adhesion. The substrates should be cleaned mechanically, dust, any loose layers and sharp protruding edges should be removed. It should be properly roughened mechanically, paying particular attention to watertight and very smooth substrates. An adherent, absorbent surface with an open pore structure should be obtained.

When coating epoxy surfaces, the substrate must be dust-free and degreased, the surfaces to be renovated must be sanded beforehand. After an interval longer than 48 hours, the primed surface must be sanded and dusted.

The strength of the substrate must be adapted to the service loads.

### ▪ **PRODUCT CONTROL**

Check the production date on the packaging before use. The product should not be incorporated beyond its shelf life. The product, once opened, should not be objectionable and should be free of any mechanical contaminations. After mixing, the product should be homogeneous and free of lumps.

### ▪ **PRODUCT PREPARATION**

Components A and B are supplied in a proper mixing ratio. Mix component A in the delivery vessel in order to homogenise and evenly distribute the mineral filler. Then add the total amount of ingredient B and mix with a mechanical stirrer at 300 - 600 rotations

per minute for approximately 3 minutes. While mixing, scrape the mixture from the sides and bottom of the vessel with the mixer to ensure thorough distribution of the hardener. After mixing, pour the material into the working vessel and mix again.

While mixing, scrape the mixture from the sides and bottom of the vessel with the mixer to ensure thorough distribution of the hardener.

If partial use is assumed, the product should be prepared maintaining the weight ratio of the components (1 part component A and 0,2 of a part component B).

The permissible application time of the mixed material is from 20 minutes to 2 hours depending on the ambient temperature.

### ▪ **APPLICATION METHOD**

Apply and spread the mixture onto the prepared substrate with a brush or a short-bristled roller, obtaining a thin, even layer. Too thick of a layer hinders the drying process, which can result in an occurrence of white spots even after drying. In the case of anti-slip systems on sandstone and higher porosity concrete, special attention should be paid to the thickness of the coating and avoiding excess material lagging on the substrate. Flooring area joints should be made using the wet-on-wet method.

### ▪ **CONTROL OF PERFORMANCE**

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

When impregnating mineral substrates, changes in surface colour and uneven colouring of the substrate may occur due to varying absorbency.

The bonded coating should have a uniform texture, without bulges, air bubbles, wrinkles, cracks and white discolouration.

## **TOOLS AND TOOL CLEANING**

Velour roller with short bristles, brush, slow stirrer.

Before using the roller for the first time, loose hair should be removed from the roller, e.g. by wrapping it with self-adhesive painter's tape and then peeling off the tape.

Clean tools with water immediately after use (resin must be in an unbound state). After the resin dries, clean tools mechanically.

## **STORAGE AND TRANSPORT**

The shelf life of the product is 12 months from production date specified on the packaging. Store in dry and airy rooms, at temperature from +10°C to +25°C in tightly sealed, original packaging. Protect the product from heat and exposure to direct sunlight. The product should only be transported by covered means of transport. All flooring materials should be seasoned for at least 24 hours in the conditions in which the flooring will be made.

## 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](http://www.nexler.com)).

After works are finished, hand over the remaining content of the product and the container 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%. In other conditions, the setting (drying) time may change significantly.

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

Despite the high UV resistance, the possibility of discolouration occurring due to exposure to sunlight must be taken into account. Discolouration does not affect the mechanical properties and does not constitute a defect.

Coatings of this type are "sensitive" products and must be handled very carefully with attention to all elements that may affect the quality and appearance of the coating being applied.

In systems using aggregate, use dried, fractionated quartz aggregates that have been washed and dusted.

The floor may not be opened to pedestrian traffic not earlier than after 1 - 4 days depending on the ambient temperature. An appropriate test must be carried out before entry. Full performance parameters are achieved in 4 - 10 days depending on ambient temperature.

The first washing of the floor can be carried out after full hardening, which occurs after about 14 days. Bleach-based products discolour the floor. Under no circumstances can they be used to clean resin surfaces.

## SAFETY INFORMATION

**Component A:** Causes severe skin burns and eye damage. May cause an allergic skin reaction. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor. Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste.

**Component B:** Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic 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. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Collect spillage. 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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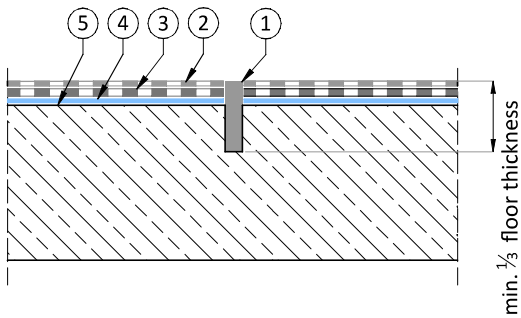
## ISSUE DATE

This Technical Data Sheet was issued on 09.04.2025.

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

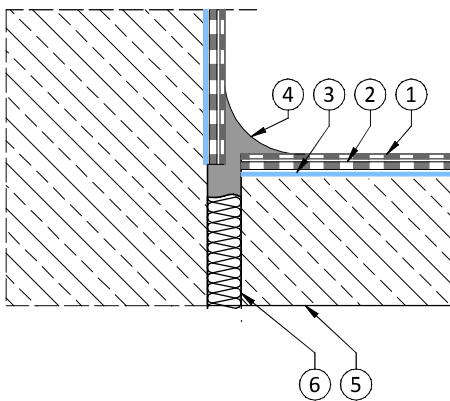
**DETAILS**

**Floor expansion joint detail**



1. Filling of the expansion joint with NEXLER Full Fix
2. **NEXLER EPOLIS WE 300** coating varnish
3. NEXLER EPOLIS WE 200 epoxy coating with decorative flakes
4. NEXLER EPOLIS WE 100 epoxy primer
5. Reinforced concrete substrate

**Detail of expansion joint in the plinth area**



1. **NEXLER EPOLIS WE 300** coating varnish
2. NEXLER EPOLIS WE 200 epoxy coating with decorative flakes
3. NEXLER EPOLIS WE 100 epoxy primer
4. Filling of the expansion joint with NEXLER Full Fix
5. Reinforced concrete substrate
6. Polystyrene filling