CONCRETE PROTECTION PAINT BF 100 ELASTIC

EN 1504-2

> Crack bridging down to -15 °C
> Freeze-thaw with deicing salt resistant
> Highly weather-resistant
> High carbonation protection
> Water vapour permeable

Product description

The Concrete Protection Paint BF 100 Elastic is a ready-to-use, water-dilutable, crack-bridging paint based on acrylate for the protection and visual improvement of concrete surfaces.
The product allows water vapour diffusion and has a high CO2 resistance (carbonization brake).
The BF 100 Elastic concrete protection paint is freeze-thaw resistant, bridges cracks at temperatures down to -15 °C and reduces the penetration of pollutants into the concrete.

Surface protection system according to ÖNORM EN 1504-2
- Protection against penetration of substances (process 1.3)
- Regulation of moisture balance (process 2.2)
- Increase of electrical resistance (process 8.2)

Delivery format

Container	Outer packaging	Pallet
12.5 L / KE	-	24 KE

Storage
Can be stored frost-free, cool, and dry on wooden shelves in the unopened original container for 365 days

Processing

Recommended tools
roller, brush or airless sprayer

Mixing
The Concrete Protection Paint BF 100 Elastic paint is ready-to-use and does not need to be mixed.

Processing
The Concrete Protection Paint BF 100 Elastic can be applied by brush, roller or airless sprayer. Generally speaking, no primer is required. The first stage can be diluted with water up to 10%, while the second stage remains undiluted. Highly absorbent substrates can be primed with Murexin LF 14 Penetrating Primer.
Stir before processing.

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Technical data

Chemical base	acrylate dispersion
Density	~ 1.35 g/cm³
Solid content	~ 65%
Consumption	2 x 200 g/m² for crack bridging A1 (at -15 °C) 2 x 300 g/m² for crack bridging A2 (at -15 °C) depending on the substrate condition
Dilution	water, first coat max. 10%
Drying time	fully dried after approx. 3 days (at +20 °C)
Certificates/test reports/class achieved	EN 1504-2
Crack bridging	Consumption 2 x 200 g/m² crack bridging class A1 (at -15 °C) Consumption 2 x 300 g/m² crack bridging class A2 (at -15 °C)
Water vapour permeability	Water vapour diffusion equivalent air layer thickness at 160 µm dry layer thickness: SD= 0.78 metres
Capillary water absorption	< 0.1 kg/m² x h0.5
CO2 permeability	at 160 µm dry layer thickness SD= 90 metres
Object and material processing temperature	min. +5 °C / max. +30 °C
Processing temperature	min. +5 °C / max. +30 °C
Rainproof	after approx. 24 hours at +20 °C
Paint-over ability	with itself after approx. 6 hours at +20 °C
Tear strength	~ 1.8 MPa
Tear strength after exposure to freeze-thawing	~ 1.9 MPa

Substrate

Suitable substrates

The substrate must be clean, solid, load-bearing and free from release agents and adhesion-reducing components as well as uniformly dry and without any wet spots. Poorly adhering old coatings must be removed. Cleaning is done by water blasting or light blasting with solid abrasive. Adhesion to old coatings must be checked using sample surfaces (wait time approx. 2 weeks). New concrete must be at least 28 days old and the residual moisture should not exceed 4% (CM measurement method). Application over Murexin repair systems can take place after approx. 5 days. Do not apply in case of rising damp or back damp. The substrate temperature must be at least +5 °C and at least +3 °C above the dew point temperature at the time of application.

For a perfect system

Description

Concrete Hydrophobic Treatment H 2 can be applied prior to the application of Concrete Protection Paint BF 100 Elastic. In the event of damage to the paint system, this design provides additional security.

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Product and processing instructions

Material advice:
- When processing outside the ideal temperature and/or humidity range, the material properties may change significantly.
- Bring the materials to the proper temperature before processing!
- To maintain the product properties, do not add any foreign materials!
- Water dosing quantities or dilution information must be strictly adhered to!
- Check coloured products before use for colour accuracy!
- Colour consistency can only be guaranteed within a batch.
- The environmental conditions significantly influence colouring.

Environmental information:
- Do not process at temperatures below +5 °C! - The ideal temperature range for material, substrate and air is +15 °C to +25 °C.
- The ideal humidity range is 40% to 60% relative humidity.
- Increased humidity and/or lower temperatures delay drying, setting and hardening, while low humidity and/or higher temperatures accelerate drying, setting and hardening.
- Ensure adequate ventilation during the drying, reaction and hardening phase; Avoid draughts!
- Protect against direct sunlight, wind and weather!
- Protect adjacent components!

Tips:
- We recommend using a test surface first or a small area for initial, small-scale testing.
- Observe the product data sheets of all MUREXIN products used in the system.
- Retain a genuine original container of the respective batch for later repair work.

The information provided reflects average values that have been obtained under laboratory conditions. Due to the use of natural raw materials, the indicated values of individual batches may vary slightly without impacting the product suitability.

Safety instructions

This leaflet is based on extensive experience, is intended to convey the best of our knowledge, is not legally binding and does neither constitute a contractual legal relationship nor a subsidiary obligation resulting from the bill of sale. The quality of our materials is guaranteed within the framework of our general terms and conditions. Our products may be used by professionals and/or experienced and accordingly technically skilled persons only. Users are not released from inquiring in case of uncertainties or from rendering professional workmanship. We recommend using a test surface first or a small area for initial, small-scale testing. Naturally, it is not possible to describe or foresee all possible current and future uses and peculiarities. Information that is assumed to be familiar to experts has been omitted.
Please observe the current, technical, national and European standards, guidelines and data sheets regarding materials, substrates and the subsequent construction. Please contact us if you have any reservations or doubt.
This version is rendered invalid if a new version is released. The most recent data sheets, safety data sheets and the terms and conditions are available online at www.murexin.com.

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