

Product 02312030 2-C urea waterproofing layer, hand-applied, fast curing, highly elastic, grey

1 General Data

Fields of application

VIASEAL PU-M1003 SN is used as hand-applied, crack-bridging waterproofing coating for a variety of applications in the construction industry. Applications include tanking, subterranean concrete structures, podium decks, waterproofing layer in car park deck coating systems, tunnel portals, fire fighting water tanks and wet rooms.

Product description

VIASEAL PU-M1003 SN is a highly elastic, fast curing, solvent-free, ready-to-use two component polyurea coating material.

The elasticity of VIASEAL PU-M1003 SN guarantees the crack-bridging and waterproofing properties. The material is hand applied and cures almost without shrinkage.

The product is not weather resistant. We recommend the application of a weather resistant, colour stable top coat in exposed applications.

Technical support

For system build up possibilities and detailed information relating to the laying of VIASEAL products, please refer to the VIASOL System Planner or contact VIACOR Polymer GmbH directly.

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(A) Technical Data Sheet

Mixture (A+B)

1. Solids content	98 %
2. Density (20°C)	approx. 1.2 g/cm ³
3. Viscosity (23°C)	5000 – 7000 mPas
4. Packaging size (2-component container)	25 kg (8.9 kg A and 16.1 kg B)
5. Colour	dark grey
6. Shelf life	12 months in closed original container
7. Storage	Dry at 10–25°C, avoid direct sunlight

(B) Technical Data

Cured material

1. Tensile strength (DIN 53504)	> 14 N/mm ²
2. Elongation at break (DIN 53504)	>800 %
3. Hardness Shore-A- (DIN EN ISO 868)	75
4. Adhesive strength (DIN EN ISO 4624)	> 2.0 N/mm ² (concrete failure)

Manufacturer:

VIACOR Polymer GmbH, Graf-Bentzel-Str.78, D-72108 Rottenburg, Tel: +49 7472 94999-0, info@viacor.de, www.viacor.de

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2 Application Method

Substrate Preparation

VIASEAL PU-M1003 SN should only be applied to suitably prepared substrates.

The substrate must be load bearing, clean and free of dust and loose particles. All traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and laitance should be removed.

VIASEAL PU-M1003 SN can be applied on concrete, asphalt, bitumen, steel, PVC, wood, aluminium and old VIASEAL spray coatings. Depending on the substrate, special pre-treatment and primer must be applied. See VIASOL primer matrix for spray coatings. Provision must be made to anchor the coating at termination.

Application

The product is delivered in ready-to-use 2-component containers in the exact mixing ratio. The A-component must be stirred for at least 2–3 minutes. Then the entire content of the A-component is emptied into the B-component container and the two components are mixed until homogeneous using a suitable electric stirrer (for at least 2–3 minutes). The inclusion of air in the mixing process is to be avoided. The mixture is poured into another container and briefly stirred again.

The product is hand applied by notched trowel in the necessary layer thickness.

For applications on areas with more than 3% slope or on vertical surfaces, a thixotropic agent (e. g. VIASOL X955) must be added depending on the slope grade and the temperatures. Please ask our technical service. We recommend in these cases to apply the membrane in 2 layers.

For cleaning of tools and other dirt VIASOL SO-X12 cleaner is recommended.

Overcoating

It is not necessary to abrade the surface if the following coat is applied within 24 h. For application after 24 h please contact our technical support.

If the coating has contact with humidity (rain or dew) the whole area must be dried thoroughly and primed with VIASOL PU-P255 to achieve good adhesion before overcoating.

(C) Technical Data

Liquid mixture (A+B)

1.	Mixing ratio A : B	100 : 180 by weight
2.	Working time (23°C) Pot life: (23°C)	approx. 15-20 min. approx.. 7 min.
3.	Application temperature (substrate and air) Material temperature	5–30°C (min. 3K above dew-point) 10-25 °C
4.	Permissible rel. humidity	min. 30 – max. 80%
5.	Material consumption	1200 g/m ² per mm thickness
6.	Foot traffic (20°C)	after 6-8 hours
7.	Consecutive layer (20°C)	within 24 hours

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3 Further information

CE-Mark



CE-Mark according to EN 13813

EN 13813: 2003-01, Screed material and floor screeds - Screed materials - Properties and requirements is the basis for requirements for floor screeds used in indoor flooring constructions. Resin coatings and sealer are also subject to this norm.

Details see CE-conformity mark and conformity declaration.

Decopaint-Guidelines (EU 2004/42/EG)

The maximum allowable VOC content for Product category IIA j Type Lb in the ready-to-use state is stage II (from 2010) < 500 g/l VOC.

In the ready-to-use state this product contains less than 500 g/l VOC.

Warnings and precautions

Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local regulations concerning the safe handling of epoxy resin based coating materials must be observed.

Suitable protective clothing including suitable eye protection must be worn.

Disclaimer

All information in this technical data sheet is based on our current knowledge and experience. This does not release the applicator from performing their own tests as many application factors, beyond our control, affect the application of our product. No guarantee of characteristics or suitability for a special purpose can be derived from this information. All present data, descriptions, drawings, photos, ratios, weights etc. are subject to change without prior notice and do not represent contracted characteristics of the product.

Due to different materials, sub-bases and working conditions, no guarantee of an application result or any liability claims can be derived from these details or from an unwritten technical advice except for liability claims based on:

- damage to life, body or health resulting from a negligent violation of obligations or a deliberate or negligent violation of obligation of a legal representative or assistant and

- if we are charged with intention or gross negligence.

The user has to test the products for their intended use. The user is responsible for following existing laws and orders and for observing third party trade mark rights.

As all VIACOR data sheets are updated on a regular basis it is the users responsibility to obtain the most recent issue (see www.viacor.de or contact us directly).

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