

Product 01070830 2-C-EP Binder for mortars, low viscosity, solvent-free, coloured

1 General Data

Fields of application

Mortar coatings based on VIASOL EP-T708P N filled with VIASOL-QS are used for industrial floors subject to the highest mechanical loads e.g. military buildings, breweries, or production sites with heavy-duty traffic.

Product description

VIASOL EP-T708P N is a solvent-free, slightly coloured, two-component epoxy resin binder for liquid-tight synthetic resin screeds and mortars which are capable of flow due to the low viscosity. It can also be used as a primer for mortars on cementitious substrates (not on on-grade concrete slabs). VIASOL EP-T708 N shows excellent workability, as well as very good mechanical properties.

The product is used together with a suitable quartz aggregates (VIASOL QS40 or 35) as a mortar, it is not a substitute for a self-leveling layer.

In general, epoxy resins are not colour stable if exposed to UV light or under influence of weathering. We recommend to apply a colour stable sealer.

Properties

- for coloured, directly used EP screeds
- for flowable mortars (smoothing by machine or with a trowel)
- for liquid-tight mortars
- direct re-coatable without pore sealer
- solvent free

VIASOL Systems

VIASOL EP-T708P N serves as the binder for the special water proof mortar coating:

VIASOL **COMPACT colour**

Care and maintenance

For a long-term preservation of the properties of resin floors, we recommend a regular cleaning and care programme. For further details see our VIASOL Care and Maintenance Guide. Before first use we recommend to perform a basic cleaning and initial care.

(A) Technical Data

Liquid mixture (A+B)

1. Solids content	99 %
2. Density: binding agent (20°C) Density mortar	1.1 g/cm ³ approx. 2.0 g/cm ³ (VIASOL QS40)
3. Viscosity (20°C)	Approx. 350- 600 mPas
4. Packaging size (2-component container)	25 kg (17,3 kg A + 7,7 kg B)
5. Colour	VIASOL standard, others on request
6. Shelf life (20°C)	24 months in closed original container
7. Storage	Dry at 15–25°C, avoid direkt sunlight

(B) Technical Data

Cured material

1. Flexural strength: mortar (EN 196 / ASTM C 109)	18.6 N/mm ²
2. Compressive strength: mortar (EN 196 / ASTM C 109)	65 N/mm ²
3. Adhesive strength (EN ISO 4624)	> 2.5 N/mm ² (concrete failure)
4. Abrasion resistance mortar (EN ISO 5470-1 Boehme)	6.2 cm ³ / 50 cm ²

Technical support

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

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2 Application method

Please refer also to our general processing instructions.

Substrate preparation

Use as a bonding agent / primer:

The substrate must be prepared by vacuum shot blasting. Rough contaminations can be removed by grinding. VIASOL EP-T708P N can be used as bonding agent directly onto cementitious substrates if the substrate moisture content does not exceed 4 CM%. On on-grade concrete slabs or on substrates with higher residual moisture content an additional primer is necessary. The substrate must be 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. The surface should have a tensile adhesion strength of minimum 1.5 N/mm². Cracks and hollows must be properly remedied.

Use as a binding agent for mortar:

The substrate must be clean and free of dust and loose particles. Mortars with VIASOL EP-T708P N as a binding agent are applied directly onto the primer VIASOL EP-P210 or VIASOL EP-T703. If the floor shows unevennesses or holes, these should be repaired with VIASOL EP-T708P N (filled with VIASOL QS). The mortar coating with VIASOL EP-T708P N as binding agent must be applied within 24 hours after the primer has been laid.

Application

Binder: The product is delivered in 2 component containers in the exact mixing ratio. The entire contents of the B-component are emptied into the A-component container. Both components are stirred until homogeneous for about 2–3 minutes using a suitable electrical stirrer. The inclusion of air in the stirring process must be avoided.

Primer: When using VIASOL EP-T708P N as a bonding agent for the EP mortar repotting before use is necessary. VIASOL EP-T708P N is poured onto the surface in portions and spread with a spatula or a rubber squeegee. We recommend to not to use VIASOL EP-T708P N as a pure primer, it is better to use a standard primer so as to be free of pores and form a film. The primer should be sprinkled with silica sand 0.3-0.8 mm (approx. 1000 g/m²).

Synthetic resin mortar:

The fillers (e.g. VIASOL QS 35 or VIASOL QS40) are pre-mixed dry in a forced action mixer. The applicator has to ensure the suitability of the used filling material / grading curve. Then the mixed binder (see above) is added and mixed with the filler for minimum 3 minutes. The mixing ration of resin / filler can be varied between 1:9 and 1:7 (11-14 % binder)..

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(C) Technical Data

Liquid mixture (A+B)

1.	Mixing ratio A : B	100 : 45 by weight
2.	Working time (20°C)	approx.20–25 minutes
3.	Application temperature:	10–30°C (min. 3°C above dew point)
4.	Material consumption: primer Mortar per mm layer thickness	approx. 200–500 g/m ² approx. 2000 g/m ²
5.	Foot traffic (20°C)	after approx. 14-24 hours
6.	Following coating (20°C)	within 14–24 hours
7.	Fully capable of withstanding mechanical stress (20°C) chemical stress (20°C)	after 7 days after 28 days

The synthetic resin mortar is applied onto the wet primer or on the dry with QS broadcasted primer in the usual manner in a minimum layer thickness of 6 mm (depending on the grain curve). It is spread and smoothed by hand or a by power trowel (e.g. Schwaborn STR 702) with a plastic plate (PPS), do not use a helicopter. Smoothing with a power trowel is just possible on a cured and sanded primer layer.

Over coating

If overcoating within 24 hours after application the mortar coating need not be grinded. Overcoating later than that is only possible after grinding it carefully.

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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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