



Technical Data Sheet

GEPOTECH-EP-1 1/22

Art.-No. 5 55200

Special primer beneath GEPOTECH-1 1/22 waterproofing

Properties:

GEPOTECH-EP-1 1/22 is a solvent free, moisture tolerant, two component epoxy resin with the following properties:

- Very good adhesion to damp concrete substrates
- Can be declared "water vapour proof"; class III (low) in accordance with classifications to DIN ISO 7783-2

Areas of application:

GEPOTECH-EP-1 1/22 is used on vertical and overhead areas:

- As a special primer in sewage areas with GEPOTECH-1 1/22
- As a primer on damp concrete areas
- As an effective protection against the formation of osmosis bubbles due to moisture penetration from the rear
- As a special primer for oil contaminated but previously cleaned concrete substrates

GEPOTECH-EP-1 1/22 is a system component of the GEPOTECH-1 1/22 coating system in compliance with Z-42.3-422 approval, as a method of restoring sewage shafts and effluent soak away pits.

Technical Data:

Basis:	two component epoxy resin
Colour:	light blue
Viscosity:	non-sag
Mixing ratio:	100:12 parts by weight
Density:	approx. 1.80 g/cm ³
Application/ Substrate temperature:	min. +8°C, max. +30°C
Foot traffic:	after approx. 12 hours *
Overcoat:	after approx. 24 hours *
Through cure:	after approx. 7 days *
Minimum cure temp:	+8°C (slower curing)
Pot life:	approx. 85 minutes *
Consumption:	min. 600 – 1000 g/m ²

Tensile adhesion strength: B 1.5
* at +23°C

Approval / test report:

General technical approval: Z-42.3-422 P 4872-1
Polymer Institute, determination of the water vapour transmission rate in accordance with DIN 7783-1.

Cleaning:

Thoroughly clean tools immediately after use with INDU-IB-Reiniger.

Packaging:

GEPOTECH-EP-1 1/22 is available in 10 kg containers. Other pack sizes on request. Components A and B are supplied at a pre-determined mixing ratio.

Storage:

18 months when stored dry above +10°C in the original unopened packaging.

Substrate:

Concrete, PCC mortar, render, brickwork (joints) substrates must be load-bearing, clean, dry or damp and free from materials that will impair adhesion. Unstable surfaces, or poorly bonded layers e.g. oils, greases, release agents or surface finishes and paint residues must be completely removed.

In addition GEPOTECH-EP-1 1/22 can be used on the following substrates:

- Concrete areas/concrete slabs subjected to rear moisture pressure
- Concrete areas/concrete slabs with increased levels of residual moisture *

Notes:

Residual moisture in cement-based substrates: dry or damp (in accordance with Def. RiLi StB) *

* "Guidelines for the protection and restoration of concrete sections" part 2, clause 1.2.5 "concrete moisture".

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“Dry”

After chopping out a fresh piece, about 2 cm deep, it may not visually lighten due to drying out. (In the case of doubt, the concrete is deemed dry if it exhibits an equilibrium moisture content in a climate of 23/50 i.e. dependent on the concrete quality, other absolute values are deemed “dry”).

“Damp”

The surface has a matt-damp appearance but may not have a shiny water film. The pore system of the concrete substrate must not be saturated i.e. water dropped onto it must be absorbed and after a short time the surface must look matt again.

“Oil contaminated concrete areas”

- Clean appropriately with INDU-Olreiniger. This is to be followed by cleaning the surface with high pressure jet washing. Remove excess water with a suitable wet vacuum. Immediately afterwards evenly apply GEPOTECH-EP-1 1/22 to the damp substrate by brush and roller.

Please be aware: There must not be a complete film of water on the surface. The substrate must not be allowed to dry out – if allowed to dry out there is a risk that the oil will rise up again and no bond to the substrate will be achieved with the special primer.

Dependent on the condition of the substrate to be treated, suitable means of preparation are to be employed such as e.g. high pressure washing, scabbling, shot blasting, planing.

Dependent on the particular substrate the following additional minimum requirements for cement-based surfaces must be fulfilled:

Concrete quality:	min. C 20/25
PCC mortar:	in accordance with DIN EN 1504-3
Tensile adhesion strength:	mean value: 1.5 N/mm ² lowest value: 1.0 N/mm ²

Render:	P111
Tensile adhesion strength:	mean value: 0.8 N/mm ² lowest value: 0.5 N/mm ²
Masonry work:	
Tensile adhesion strength:	mean value: 0.5 N/mm ² lowest value: 0.3 N/mm ²

Important advice:

Oil contaminated substrates pose a particular problem; we recommend contacting our Technical Services Department.

Product preparation:

Component A (resin) and component B (hardener) are supplied at a pre-determined mixing ratio. Always thoroughly stir the filled A component. Afterwards add component B to component A and mix. Ensure that the hardener completely drains from its container. Blending of both components is to be performed with a suitable mixer at approx. 300 rpm (e.g. drill with paddle). At a higher rpm too much unnecessary air is entrained. At a lower rpm a poor mix is achieved. It is important to stir from the sides and the bottom so that the hardener is evenly distributed. Keep stirring until the mix is homogeneous (free from striations); mixing time approx. 3 minutes. The material temperature during the mixing process should be approx. +15°C. Do not use the mixed material directly from the packaging. Decant the mixture into a clean container and thoroughly mix again.

Application method / consumption:

Apply GEPOTECH-EP-1 1/22 to the cleaned, damp substrate ensuring all pores are closed off.

1. On vertical and overhead areas it is advantageous to firstly apply with a stiff brush and to subsequently thoroughly brush in with a priming brush and then go over again with a paint roller. Completely blind the wet priming coat with quartz sand (particle size diameter 0.5 – 1.0 mm). Once cured thoroughly
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remove all non-bound quartz components, before the primer is applied for further coatings.

2. On horizontal areas it is advantageous to thoroughly distribute the GEPOTECH-EP-11/22 firstly with a rubber squeegee and subsequently thoroughly brush into the surface with a primer brush and then go over once again with a paint roller. Completely blind the wet priming coat with quartz sand (particle size diameter 0.5 – 1.0 mm). Once cured thoroughly remove all non-bound quartz components, before the primer is applied for further coatings.

Material consumption GEPOTECH-EP-11/22:

Consumption:

between min. 800 – 1000 g/m²

(dependent on the substrate)

Broadcast material:

approx. 1,500 g/m²

After waiting for approx. 12 – 24 hours, waterproof coating with GEPOTECH-11/22 may be carried out to the evenly broadcast surface.

Physiological behaviour and protective measures:

Once cured GEPOTECH-EP-11/22 is harmless. Pay attention to: practical guide to handling epoxy resins distributed by the professional association for the building industry www.bgbau.de or www.gisbau.de.

Important advice:

- Higher temperatures shorten the pot life. Lower temperatures increase the pot life and curing time. Material consumption is also increased at lower temperatures.
- Surface protective systems must be protected for approx. 4 – 6 hours from dampness after application (e.g. rain, melt water). Dampness produces a white discolouration and/or stickiness on the surface and can impede the cure. Discoloured and/or sticky surfaces should be taken off e.g. by abrading and renewed.

- Cover areas not to be treated.
- Applications that are not clearly explained in this technical data sheet may only be carried out after consultation with and written confirmation from the Technical Services Department of SCHOMBURG ICS GmbH.
- Before starting work, pay attention to the technical data sheets for the products mentioned above.
- Cured product residues are to be disposed of under the waste disposal code 57123 "Epoxy resin".

GISCODE: RE 1