Technical Data Sheet

StoPox WHG Grund 100

EP primer, tested and approved water protection systems

Characteristics

Area of application

- interior
- exposed to the weather
- on floors
- on dry, cementitious substrates, e.g. concrete, screed
- as a priming coat in the StoCretec WHG system 1, 1a, and 2

Properties

- very good adhesive bond on mineral substrates
- suitable in the case of rising damp

Appearance

- transparent

Information/notes

- product is in accordance with EN 13813
- for water pollution control in accordance with the German Federal Water Act (WHG) § 62
- do not apply to damp or soiled substrates

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength (28 days)	EN 1542	> 2.0 MPa	
Viscosity (at 23 °C)	EN ISO 3219	300 - 450 mPa.s	mixture
Density (mixture 23 °C)	EN ISO 2811	1.05 - 1.11 g/cm³	

The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

Substrate

Requirements

General:
- Dry, load-bearing
- Free from separating, native, or foreign substances
- Remove weak layers.
- Remove any accumulation of fine concrete particles on the surface.

Dry substrate:

	- Depends on the compressive strength class - Dry according to the definition contained in the DAfStb (German) Repair Guideline, issue 2001-10. Moisture content: - Measure the moisture content of the concrete substrate with a calcium carbide meter. - Moisture content for concrete qualities up to C30/37: max. 4 weight per cent - Moisture content for concrete qualities up to C35/45: max. 3 weight per cent Substrate temperature: at least +8 °C, 3 K above the dew point Bond strength, average: 1.5 N/mm² Bond strength, lowest single value: 1.0 N/mm²
Preparations	1) Prepare all the above-mentioned substrates using a mechanical method, see “Substrate, requirements”. Example: - Shot-blasting - Milling followed by shot-blasting - Abrasive blasting
Application	
Application temperature	Application temperature: minimum temperature: +8 °C maximum temperature: +30 °C Relative humidity: maximum: 75 % at +8 °C maximum: 85 % at +30 °C
Time for application	At +10 °C: approx. 60 minutes at +23 °C: approx. 40 minutes at +30 °C: approx. 20 minutes
Mixing ratio	component A : component B A : B 100.0 : 45.0 parts by weight
Material preparation	Notes: - Component A and Component B are supplied in the correct mixing ratio and should be mixed in accordance with the following instructions: - Observe the order of the “Preparing material” steps. - The material temperature is between +15 °C and +25 °C. - The temperature of all components is between +15 °C and +25 °C. Mixing time:

- The length of the mixing time depends on the temperature of the material and the ambient temperature.
- Mix each container for the same length of time.

Possible consequences if mixing times are too long or too short:
- Mixing the product too long will shorten the time for application.

Preparing the material:
1) Stir component A.
2) Add all of component B.
3) Mix the components until the hardener is well distributed, the mixture is homogeneous, and a streak-free mass is produced.
Paddle mixer: slow running mixer, max. 300 rpm
Mixing time: at least 3 minutes
4) Ensure that the mixing equipment covers the bottom and the rim areas of the mixing container. The hardener must be evenly distributed.
5) Transfer the mixture to a clean container. Mix the components again.

Consumption

Type of application	Approx. consumption	
As primer depending on substrate absorbency	0.3 - 0.5	kg/m²
As scratch coat per mm layer thickness	0.6 - 0.7	kg/m²

Material consumption depends on the application, substrate, and consistency, among other factors. The stated consumption values are only to be used as a guide. If required, determine precise consumption values on the basis of the specific project.

Coating build-up

A: StoCretec WHG System 1
1) Prepare the substrate.
2) Priming: StoPox WHG Grund 100
3) Apply an optional scratch mortar: StoPox WHG Grund 100
4) Coating: StoPox WHG Deck 100

B: StoCretec WHG System 2
1) Prepare the substrate.
2) Priming: StoPox WHG Grund 100
3) Apply an optional scratch mortar: StoPox WHG Grund 100
4) Self-adhesive conductive strip: StoDivers LB 100
5) Apply a conductive layer: StoPox WHG Leit 110
6) Coating: StoPox WHG Deck 110

C: application on vertical surfaces
1) Priming: StoPox WHG Grund 100
2) Filling: StoPox WHG 100 binder
3) Apply the covering layer: StoPox WHG Deck 100

Application

A: StoCretec WHG System 1

Note:
- national technical approval Z-59.12-309

1) Prepare the substrate.

2) Priming:
- StoPox WHG Grund 100
- Flood apply the product without pores. Tools: rubber squeegee
- Rework the product with a roller and spread evenly.
- consumption: approx. 0.3-0.6 kg/m², depending on the roughness of the substrate
Note:
- Avoid the formation of puddles.
- Overcoat the product in accordance with the valid national technical approval within the specified time interval, without scattering.

3) Apply an optional scratch mortar:
- StoPox WHG Grund 100
- Mixing ratio:
1.0 part by weight StoPox WHG Grund 100
1.0 part by weight from a mix of 50 % StoQuarz 0.1-0.5 mm and 50 % quartz 0.01 mm
- Apply the product filled with quartz sand. Tools: smoothing trowel, squeegee with V-notch
- Spread the product evenly and de-air. Tools: spiked roller
- consumption StoPox WHG Grund 100, per mm layer thickness: approx. 0.6-0.7 kg/m²
- Apply the product filled with quartz sand. Tools: squeegee
- consumption of StoQuarz 0.1-0.5 mm: 0.6-0.7 kg/m²
- consumption of quartz 0.01 mm: 0.6- 0.7 kg/m²
Note:
- If required, add the StoDivers ST thixotropic additive.
- Determine the amount of thixotropic additive required for the project, depending on the temperature and inclination of the surface.

4) Coating:
- StoPox WHG Deck 100
- The application information is described in the Technical Data Sheet of the coating used.

B: StoCretec WHG System 2

Note:
- national technical approval Z-59.12-311

1) Prepare the substrate.

2) Priming:
- StoPox WHG Grund 100
- Flood apply the product. Tools: rubber squeegee
- Rework the product with a roller and spread evenly.
- consumption: approx. 0.3-0.5 kg/m², depending on the roughness of the substrate

Note:
- Avoid the formation of puddles.
- Overcoat the product in accordance with the valid national technical approval within the specified time interval, without scattering.

3) Apply an optional scratch mortar:
- StoPox WHG Grund 100
- Mixing ratio:
1.0 part by weight StoPox WHG Grund 100
1.0 part by weight from a mix of 50 % StoQuarz 0.1-0.5 mm and 50 % quartz 0.01 mm
- Apply the product filled with quartz sand. Tools: smoothing trowel, squeegee with V-notch
- Spread the product evenly and de-air. Tools: spiked roller
- consumption StoPox WHG Grund 100, per mm layer thickness: approx. 0.6-0.7 kg/m²
- consumption of StoQuarz 0.1-0.5 mm: 0.6-0.7 kg/m²
- consumption of quartz 0.01 mm: 0.6- 0.7 kg/m²

Note:
- If required, add the StoDivers ST thixotropic additive.
- Determine the amount of thixotropic additive required for the project, depending on the temperature and inclination of the surface.

4) Self-adhesive conductive strip:
- StoDivers LB 100
- Affix the product to the prepared substrate and connect to ground.

5) Apply a conductive layer:
- StoPox WHG Leit 110
- The application information is described in the Technical Data Sheet of the coating used.

6) Coating:
- StoPox WHG Deck 110
- The application information is described in the Technical Data Sheet of the coating used.

C: Application on vertical surfaces:
1) Priming:
- StoPox WHG Grund 100

2) Filling:
- StoPox WHG Grund 100 binder
- Mixing ratio:
4 % thixotropic additive
a mix of 50 % StoQuarz 0.1-0.5 mm and 50 % quartz 0.01 mm
consumption: approx. 500 g mixture in approx. 500 g of StoPox WHG Grund 100 binder

3) Apply the covering layer:
- StoPox WHG Deck 100
- The application information is described in the Technical Data Sheet of StoPox WHG Deck 100.

Note:
- Consumption and application: see also the information in the national technical approval

Drying, curing, ready for next coat	Reworking time: At +10°C: approx. 24 h At +23°C: approx. 12 h At +30°C: approx. 8 h
Cleaning the tools	Clean tools with StoDivers EV 100 or StoCryl VV.
Notes, recommendations, special information, miscellaneous	1) Observe the general application instructions: - see www.stocretec.de, Products - see technical manual, notes 2) Observe the implementation instructions. Declaration of performance, CE marking: - declaration of performance: see www.stocretec.de - The abrasion resistance specified in the declaration of performance refers to the smooth, not scattered covering.

Delivery

Packaging pail and tin

Article number	Name	Container
04871/004	StoPox WHG Primer 100 Set	23 kg set

Storage

Storage conditions	Store in dry and frost-free conditions. Protect from direct sunlight.
Storage life	The product quality is best guaranteed in its unopened original container until its shelf life has expired. This information is included in the batch number on the

container. Explanation of batch nos.:
digit 1 = last digit of the year, digits 2 + 3 = calendar week, example: 2450013223 - storage life ends at week 45 in 2022
In the original container until ... (see packaging).

Certificates/approvals

Z-59.12-309	StoCretec WHG System 1 National technical approval
Z-59.12-310	StoCretec WHG System 1a National technical approval
Z-59.12-311	StoCretec WHG System 2 National technical approval

Identification

Product group Primer

Safety

This product is subject to compulsory labelling in accordance with the current EU regulation.
You will receive an EU Safety Data Sheet with your first order.
Please observe the information regarding the handling of the product, its storage, and disposal.
Handling epoxy resins: “Praxisleitfaden für den Umgang mit Epoxidharzen”, (Practical guide for handling epoxy resins) and
test report: “Prüfbericht zur Schutzwirkung von acht Chemikalienschutzhandschuhen gegenüber EP-Beschichtungen” (Test report on the protective effect of eight chemical protective gloves against EP coatings),
Gloves: “Handschuhe für den Umgang mit lösemittelfreien Epoxidharzen” (Gloves for handling solvent-free epoxy resins), and
Protective gloves: “Die richtige Anwendung von Schutzhandschuhen” (The correct use of protective gloves)
Https://www.bgbau.de/themen/sicherheit-und-gesundheit/gefahrstoffe/umgang-mit-epoxidharzen/

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Guidelines for the planning of building site facilities: "Wirtschaftliche and sichere Baustelleneinrichtung"

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Special notes

The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and use.
Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk. This applies in particular when the product is used in combination with other products.

When a new Technical Data Sheet is published, all previous Technical Data Sheets are no longer valid. The latest version is available on the Internet.

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