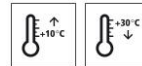


Technical Data Sheet

StoPur AC MultiCoat

Polyurea coating for increased requirements, tested and approved surface protection systems for traffic structures



Characteristics

Area of application	<ul style="list-style-type: none"> interior exposed to the weather as a coating for floor areas subject to vehicle traffic in multi-storey car parks and underground car parks as a wearing course in the surface protection system: StoCretec OS 10.4
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Properties	<ul style="list-style-type: none"> resistant to oils resistant to fuels high wear resistance colour-stable
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Information/notes	<ul style="list-style-type: none"> product is in accordance with EN 1504-2 product is in accordance with EN 13813
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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	8,000 - 9,000 mPa.s	
Density (mixture 23 °C)	EN ISO 2811	1.4 g/cm ³	

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	<p>General:</p> <ul style="list-style-type: none"> - Dry, load-bearing - Free from separating, native, or foreign substances - Remove weak layers. - Remove any accumulation of fine concrete particles on the surface.
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Technical Data Sheet

StoPur AC MultiCoat

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 CM per cent
- Moisture content for concrete qualities up to C35/45: max. 3 CM per cent

Substrate temperature: at least +10 °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

substrate and air temperature
minimum temperature: +10 °C
maximum temperature: +30 °C

Application temperature:
minimum temperature: +10 °C
maximum temperature: +30 °C

Relative humidity:
minimum: 40 %
maximum: 85 %

Time for application

at +23 °C: approx. 20 minutes

Mixing ratio

component A : component B
A : B
100.0 : 12.0 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.

Technical Data Sheet

StoPur AC MultiCoat

- 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 the the mixing equipment covers the floor areas and the edge zones of the mixing container. The hardener must be evenly distributed.
- 5) Transfer the mixture to a clean container. Mix the components again.

Coating build-up

- 1) Prepare the substrate.
- 2) Priming: StoPox GH 500
- 3) Scatter: StoQuarz 0.3-0.8 mm
- 4) Apply a crack-bridging, elastic floating layer: StoPur PM MultiBase
- 5) Applying a wearing course: StoPur AC MultiCoat
- 6) Optionally, scatter: StoQuarz 0.3–0.8 mm or 0.6-1.2 mm
- 7) Optionally, seal: StoPur DV 506

Application

- 1) Prepare the substrate.
- 2) Priming:
 - StoPox GH 500
 - Apply the product evenly. Tools: rubber squeegee
 - Rework the product and spread evenly with a roller.
 - consumption: approx. 0.3-0.4 kg/m², depending on the roughness of the substrate
 - Note: Avoid the formation of puddles.
 - Recommendation: Apply a scratch coat for roughness depths > 0.5 mm.
- 3) Scatter:
 - StoQuarz 0.3-0.8 mm
 - Scatter the fresh priming coat grain by grain without any surplus.
 - consumption: approx. 0.5 - 1.0 kg/m²
 - Note: Remove the unbound quartz sand after 24 h.
- 4) Apply a crack-bridging, elastic floating layer, main effective surface protection

Technical Data Sheet

StoPur AC MultiCoat

layer:

- StoPur PM MultiBase
- Apply the product unfilled without quartz sand. layer thickness: at least 2.0 mm, tool: squeegee with triangular notching
- Rework the product in a criss-cross pattern for ventilation. Tools: spiked roller
- consumption: approx. 3.0 kg/m²
- Note: use spiked soles with straight-edged nails during scattering or de-airing to prevent damage to the membrane.

5) Applying a wearing course:

- StoPur AC MultiCoat
- Waiting time: Apply the wearing course after 8-24 hours.
- Apply the self-levelling mortar in the required layer thickness.
- Rework the product with a roller in a criss-cross pattern. Tools: short-pile roller sleeve
- consumption of StoPur AC MultiCoat: approx. 2.5 kg/m²

6) Optionally, scatter:

- StoQuarz 0.3–0.8 mm or 0.6-1.2 mm
- Scatter the surface full-faced in excess.
- consumption of StoQuarz 0.3-0.8 mm or 0.6-1.2 mm: approx. 1-2 kg/m²

7) Optionally, seal:

- StoPur DV 506
- Remove the unbound quartz sand.
- Apply the product evenly in a criss-cross pattern. Tools: rubber squeegee
- Rework the product and spread evenly in a criss-cross pattern with a roller. Tools: short-pile roller sleeve
- consumption: approx. 0.6-1.0 kg/m², depending on the scattering

Notes:

- Damp and not fully cured substrates lead to damage.

Substrate temperature, ambient temperature:

- In addition to the environment temperature, the substrate temperature is vital for the application of reaction resins.
- Low temperatures delay the chemical reactions.
- This extends the time for application, overcoating, and walking on it.
- The consumption per surface unit may rise due to increasing viscosity.
- High temperatures accelerate chemical reactions, reducing the time for application, overcoating, and walking on it.

Colour shade deviation:

- Exposure of the chemicals may cause discolourations, which do not, however, impair the technical function of the coating.
- Slight deviations in the colour shade are possible between different batches.

Technical Data Sheet

StoPur AC MultiCoat

Consumption, application:
 - The details on consumption and application relate to horizontal surfaces.
 - On inclinations: test a sample surface area first.

Drying, curing, ready for next coat Time until the area is suitable for foot traffic:
 - After approx. 8 hours
 - Depending on the humidity: if humidity is higher, the material hardens faster.

Fully resistant to mechanical stress:
 - At +23 °C: after approx. 24 hours

Reworking time:
 - at +23 °C: within 18 hours

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

Colour shade grey

Packaging pail

Article number	Name	Container
09727/001	StoPur AC Multi Coat Set tinted	25 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: 1450013223 - storage life ends at week 45 in 2022
 See product packaging

Technical Data Sheet

StoPur AC MultiCoat

Identification

Safety This product is subject to compulsory labelling in accordance with the current EU regulation.
Observe the Safety Data Sheet!

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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