

Technical Data Sheet

StoPur AC MultiCoat

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



Characteristics

Area of application	• 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 asphalt overlay in the surface protection systems: OS 10.4 and OS 10.22 from StoCretec
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Properties

- resistant to oils
- resistant to fuels
- high wear resistance
- colour-fast

Information/notes

- product is in accordance with EN 1504-2
- product is in accordance with EN 13813

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength	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

- 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

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- 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.
- The temperature of all components is between +15 °C and +25 °C.

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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 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

A: crack-bridging build-up, surface protection system OS 10.4

- 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 -----

B: crack-bridging build-up, surface protection system OS 10.22

- 1) Prepare the substrate.
- 2) Priming: StoPox GH 531
- 3) Scatter: StoQuarz 0.3-0.8 mm
- 4) Apply a crack-bridging, sealing layer: StoPur SC 300
- 5) Applying a wearing course: StoPur AC MultiCoat

Application

A: crack-bridging build-up, surface protection system OS 10.4

- 1) Prepare the substrate.
- 2) Priming:
 - StoPox GH 500
 - Apply the product evenly. Tools: rubber squeegee
 - Rework the product with a roller and spread evenly.
 - 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:

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- 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 layer:

- StoPur PM MultiBase
- Apply the product unfilled without quartz sand. layer thickness: at least 2.0 mm, tools: squeegee with V-notch
- Rework the product in a criss-cross pattern for ventilation. Tools: spiked roller
- coverage: approx. 3.0 kg/m²

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
- StoPur AC MultiCoat coverage: approx. 2.0–2.7 kg/m² (minimum 1.8 kg/m²)
- Note: Use spiked soles with straight-edged nails when applying self-levelling mortar to prevent damage to the membrane.

B: crack-bridging build-up, surface protection system OS 10.22

1) Prepare the substrate.

2) Priming:

- StoPox GH 531
- Apply the product evenly. Tools: rubber squeegee
- Rework the product with a roller and spread evenly.
- 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, sealing layer, main effective surface protection layer:

- StoPur SC 300
- Apply the product unfilled without quartz sand. layer thickness: at least 2.0 mm
- The product can only be applied using two-component spray equipment.
- consumption: approx. 2.3 kg/m²
- Apply the product wet-on-wet in several layers up to the required layer thickness.

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The recommended minimum layer thickness is 2 mm.

- Before application protect the adjacent areas from spray, e.g. with foil or paperboard. Take precautions to protect the environment from spray fog in windy conditions.

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.
- StoPur AC MultiCoat coverage: approx. 2.0–2.7 kg/m² (minimum 1.8 kg/m²)
- Note: Use spiked soles with straight-edged nails when applying self-levelling mortar to prevent damage to the membrane.

Apply the StoCretec surface protection system OS 10.22:

- Coverage and details: implementation instructions, attachment 1 of the general building inspection test certificate.

Notes:

- Damp and not fully cured substrates lead to damage.

Substrate temperature, ambient temperature:

- In addition to the ambient 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.

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.

Suitable for vehicle traffic:

- After approx. 24 hours

Fully resistant to mechanical stress:

- After approx. 3 days

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Chemically fully resistant:
- After approx. 7 days

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

Cleaning the tools	Clean tools with StoDivers EV 100 or StoCryl VV.
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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. - With OS 10 system build-ups, surface cracks cannot be excluded.
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Delivery

Colour shade	colour shades in accordance with RAL colour fans
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Packaging	Pail
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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.
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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 See product packaging
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Identification

GISCODE	PU10
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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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