Technical Data Sheet

PT Multi-Hybrid Coating 2C grey

- hybrid waterproofing coating -
(universal usable, elastic, crack bridging)

Product description

PT Multi-Hybrid Coating 2C grey is a two component, hydro active, highly elastic, mineral/polymer based special coating with very high polymer content. PT Multi-Hybrid Coating 2C grey consist of a powder component (component A) and low viscous polymer dispersion (component B). Due to the formulation PT Multi-Hybrid Coating 2C grey is curing without cracks. Additionally, PT Multi-Hybrid Coating 2C grey is bitumen and solvent free, universal usable as a reactive waterproofing system. The coating combines the positive properties of a flexible sealing slurry and bitumen thick coating in one product.

Application areas

PT Multi-Hybrid Coating 2C grey is used for the exterior waterproofing of building components in areas in contact with the ground in accordance with DIN 18533. It provides long-term protection for building components in contact with the ground in accordance with DIN 18533 within application areas W1-E, W2.1-E, W3-E, and W4-E. PT Multi-Hybrid Coating 2C grey has also proven effective as a horizontal waterproofing system (Load Case 2, LF2) beneath rising masonry and over old bitumen waterproofing membranes.

Product advantages

- **Two-component (A+B)**
- **Universally usable**
- **Hybrid technology, reactive sealant**
- **Solvent free**
- **Water pressure resistant**
- **High stability**
- **Crack-bridging, highly elastic**
- **High solids content**
- **Fast curing**
- **Radon-proof**
- **Suitable for indoor and outdoor use**
- **Machine-sprayable**
- **Rainproof after approx. 2 hours**
- **Easy application, very pliable**
- **Machine-processable**
- **„Made in Germany“**

proof-tec GmbH • Wiesedermeerer Hauptstr. 24 • D-26446 Friedeburg • GERMANY
T: +49.4948.3269990 • info@proof-tec.com • www.proof-tec.com

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Specification

Base	: Special powder + quarz sand + polymer
Color	: grey
Processing temperature	: + 5°C up to + 25°C
Bulk density	: approx. 1.2 g/cm³
Ready for use/can be filled	: after 16 hours
Rain resistance	: after approx. 2 hours
Drying time for 1st and 2nd coats	: approx. 2-3 hours
Material shrinkage	: approx. 7%
Fire resistance	: Class E
Compressive strength	: Class C2A
Maximum layer thickness	: 8 mm
Material consumption	: approx. 1.5 kg/m² per mm of dry layer thickness

Consumption

Dry film thickness	Wet film thickness	Consumption	WE classes
2.0 mm	2.1 mm	2.5 kg/m²	
3.0 mm	3.2 mm	3.8 kg/m²	W1-E, W4-E
4.0 mm	4.3 mm	5.2 kg/m²	W2.1-E, W3-E
Scratch-coating		1-2 kg/m²	
Bonding insulation boards		1-2 kg/m²	

The consumption rates shown are minimum values. A separate professional levelling of the substrate, for example by a scratch coating is expected.

All technical datas are measured in our laboraty.

Please take notice about the safety information and advice given on the safety data sheets and packaging labels.
GISCODE: D1

Delivery form

24.8 kg combi packaging — Article-No. 05400001
(16 kg powder component + 8.8 kg liquid component)

Storage

6 months (frost-free and dry, +5°C up to +25°C in original packaging).

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Application

Surface preparation

The surface must be mineral, dry or light humid, sound, absorbent and clean. Bonding inhibiting agents such as grease, oil, formwork oil and all loose particles and dust must be removed before application of PT Multi-Hybrid Coating 2C.

Damaged area like cracks, holes or cavities have to be reprofiled with PT Swelling mortar. Cavities or surface damages >5mm have to be reprofiled with PT Surface Sealing Mortar. The pores of substrate must be open, so PT Multi-Hybrid Coating 2C can penetrate. Cracks have to be treated or waterproofed separately by using injection systems. PT Multi-Hybrid Coating 2C can be applicated on old tiles (ask our technical department). Concrete surface maybe have to be grinded before application.

Before applying the first coat of PT Multi Hybrid Coating 2C grey, highly absorbent subtrates must be pimed with PT Deep Primer. The primer must be fully absorbed into the substrate before the first coat of PT Multi Hybrid Coating 2C grey can be applied. Concrete surfaces may need to be prepared, for example, by sandblasting.

Material

PT PT Multi Hybrid Coating 2C grey must always be applied in at least two coats to achieve the required wet film thickness or dry film thickness. PT Multi Hybrid Coating 2C grey is supplied in a mixing container (hobbock) (powder component 16 kg, liquid component 8.8 kg). First, add the liquid component, then the powder component. Mix both components mechanically with a suitable device (e.g., Collomix DLX mixer) for at least 2 minutes until the mixture is homogeneous and free of lumps. To ensure even application of PT Multi Hybrid Coating 2C grey, the use of a 6 x 6 x 6 mm notched trowel is recommended. In general, ensure that the previously applied layer is fully set (scratch-resistant) before applying each new coat. This is typically the case after approximately 2 to 3 hours. PT Multi Hybrid Coating 2C grey can be applied with a trowel, a notched trowel, or a suitable spray machine. Ensure that the layers are applied evenly.

For spray application, it is recommended to add approximately 0.5 l of tap water to one container of PT Multi Hybrid Coating 2C grey immediately after mixing. Stir until a homogeneous, lump-free mixture is formed.

If PT Multi Hybrid Coating 2C grey is to be covered with plaster, a combed-in bonding layer must first be applied using a suitable adhesive (e.g., mineral-based reinforcing adhesive or flexible adhesive). Once dry, a suitable plaster from mortar groups PII or PIII (depending on the application) can then be applied in accordance with the manufacturer’s instructions.

Positive side waterproofing

Apply the first coat to the prepared substrate using a brush, a paintbrush, or a trowel. The first coat must be fully set before applying the second coat. The waterproofed surface must be protected from damage. Protective and drainage layers should not be applied until the waterproofing layer is completely dry. We recommend using suitable protective layers, such as dimpled membranes, to protect the waterproofing. The entire waterproofing system must be protected from drying out too quickly (wind, sun), frost, and rain.

Special Notes:
Sealant that has already begun to set cannot be made workable again, either with water or with fresh material.

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PT Multi Hybrid Coating 2C grey meets the requirements of DIN 18533 and may be used for waterproofing at the interface with concrete components that have high water penetration resistance.
When using the above-mentioned dilution of PT Multi Hybrid Coating 2C grey for spray application, we recommend increasing the wet film thickness by approximately 5–10% and embedding a reinforcing mesh to prevent cracking.
The required dry film thickness must not be undershot at any point.
The required wet film thickness must not be exceeded by more than 100% at any point.

During work interruptions, the FPD must be “extended to zero” and must not end at the corner of the building.
Surface waterproofing must always be protected with appropriately suitable material (e.g., drainage layers or insulation materials).
Coating thickness is verified by measuring wet film thicknesses in accordance with DIN 18195, Supplement 2.
In accordance with DIN 18533, Part 3, at least 20 measurements must be taken per project or at least 20 measurements per 100 m².
To test the curing and adhesion of the applied waterproofing, the FPD must be extended in certain areas beyond the 15-cm connection zone. In these areas, perform destructive testing of curing and adhesion. The results of this testing must be documented.
The results of the coating thickness and curing checks must be documented in an execution report in accordance with DIN 18533 Part 3.

Recommended tools
Brush, trowel, gloves, safety glasses, mixing equipment, spraying device

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Application areas:

Remarks
The information given in this technical data sheet corresponds to the current state of development and is based on our experience, our knowledge and is non-binding. An investigation has to be done with focus on the respective building project and the area of application. The technical expert advice of proof-tec employees does not exclude the planning or control by an engineer. We are liable within the scope of our general delivery and sales conditions, we are not liable for the application of our materials. The generally accepted rules of technology must be observed. If necessary, preliminary tests have to be carried out.

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All previous versions of this technical data sheet are not valid anymore and should not be used anymore.

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