Technical Data Sheet

PT Reactive-Slurry Sulphate

- special sealing slurry -
(sulphate resistant, rigid, waterproof)

Product description

PT Reactive-Slurry Sulphate is a cement reactive (special cement), powdered, sulphate resistant, rigid and mineralic sealing slurry with deep penetration additives. PT Reactive-Slurry Sulphate penetrates deep into the substrate and claws onto substrate to achieve a very good bonding to the surface.

Application areas

PT Reactive-Slurry Sulphate is used for reliable and permanent waterproofing against pressurized Water, especially in old building (renovation). PT Reactive-Slurry Sulphate is used on vertical and on horizontal aurfaces which have to be waterproofed. It is applicable on nearly all mineral sufficiently solid surfaces with an ideal strength of >1,5 N/mm². Typical application areas are basements, concrete elements, car parkings, tunnels, water tanks, wet rooms or manholes.

Product advantages

- **Dry mortar**
- **According to DIN 1504**
- **Watertight against pressurized water**
- **Integral waterproofing system**
- **Salt water resistant**
- **Frost resistant**
- **High compressive**
- **Easy application**
- **Sprayable**
- **„Made in Germany“**

Specification

Basis	: special cement, additives
Color	: darkgrey
Processing temperature	: + 5°C up to + 35°C
Buld density	: approx.1.24 g/cm³
Water vapour diffusion resistance factor µ:	: approx. 60
Trafficable	: after approx. 1 day
Loadable	: after approx. 2 days
Water requirement	: approx. 9.5 liter per 25 kg slurry
Applicable	: approx. 3 hours at 20·°C/50% rel. h.
Curing time	: after approx. 14 hours

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Complete curing	: after 28 days
Shrinkage	: <0.02%
Consumption	: no pressurized water approx. 3 kg/m² pressurized water approx. 5 kg/m²
Minimum thickness	: approx. 1.6 mm at no pressurized water approx. 2.8 mm at pressurized water

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: ZP1

CE	proof-tec GmbH Wiesedermeerer Hauptstr. 24 D-26446 Friedeburg 17 EN 1504-3:2005 Unique identification code of the product-type proof-tec - 0510 EN 1504-3: ZA.1a Product of structural and non structural concrete repair Applying mortar by hand (3.1)

Compressive strenght	Class R3
Cloride ion content	≤ 0,05 %
Adhesive bond	≥ 1,0 MPa
Restrained shrinkage/expansion	NPD
Carbonation resitance	NPD
Elastic modulus	> 10 GPa
Thermal compatibility	NPD
Coefficient of thermal expansion	NPD
Capillary absorption	≤ 0,5 kg/m² × h 0,5
Reaction to fire	Class A1
Dangerous substanzes	NPD

Delivery form

25 kg bag — Article-No. 05100025

Storage

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

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 Reactive-Slurry Sulphate. 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 Reactive-Slurry Sulphate can penetrate. Cracks

have to be treated or waterproofed separately by using injection systems. Dusty or salt damaged surface have to be treated with PT Deep Primer prior application of the slurry. So the substrate is re-solidified and salts are transferred from soluble to insoluble and during curing time of the slurry no salts can penetrate into the PT Reactive-Slurry Sulphate during curing.

Negative side waterproofing
The old salt and humid damaged “old plaster” must be removed minimum 80 cm above the visible damaged surface. Loose, sandy and damaged material has to be cleaned out of the joints, minimum 2 cm deep. Maybe the surface requires a mechanical cleaning by grinding. Damaged bricks must be replaced. In case of salt damaged and dusty surface, the surface must be treated with PT Deep Primer. Joints and cavities must be reprofiled with PT Swelling Mortar.

PT Reactive-Slurry Sulphate must be mixed with using of a slow speed mixer with clean water (approx. 9.5 ltr per 25 kg) or according our recommendation with a liquid out of water + 20% PT Bonding Emulsion Plus or with one canister PT Reactive Flex. Put firstly water (or admixture) in a pail and add the whole bag of sealing slurry, mix it until a lump-free compound is attained. After mixing wait 1 minute and mix again. The application on the surface must be done with a hard brush or spraying device. The coating in principle done by minimum 2 layers, whereby the minimum thickness has to be observed. The first layer must not be completely cured before the second layer is applied or the surface has to be pre-wetted.

The whole system has to be secured against too fast drying (wind, sun etc.), frost and rain. At negative side waterproofing the rel. air humidity should not be higher than 65%. PT Reactive-Slurry Sulphate can be covered with coating which open for water vapor diffusion or plasters. In case of negative side waterproofing in basements, we recommend to cover the coating with PT Restoration Plaster white or rapid, to prevent condensate water on the coating.

Recommended tools
Hard brush
Roller
Gloves
Safety glasses
Mixer
Spraying device

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.

Version 02/2021
All previous versions of this technical data sheet are not valid anymore and should not be used anymore.