

# Technical Data Sheet

## PT Restoration Plaster HQ

**- white restoration plaster -  
(proof-tec HQ-Technology, salt resistant, open for water vapor diffusion)**

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### Product description

PT Restoration Plaster HQ is a multi functional, fiber reinforced and on white cement based dry mortar with high vapor permeability and large pore volume. Due to the low capillary absorbency (hydrophobic pores) the moisture from the substrate can only penetrate in the restoration plaster in water vapor form. Construction damaging salts will be absorbed in the pores of PT Restoration Plaster HQ. Therefore the plaster surface is free of salt efflorescence. PT Restoration Plaster HQ complies with the technical requirements of WTA Guideline 2-9-04. The hydrophobic property (proof-tec HQ Technology) starts very fast, which leads to a high product safety. The hydrophobization can be observed during the plaster has not reacted. That means within curing time of plaster no salts can penetrate into the plaster.

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### Application areas

PT Restoration Plaster HQ is used for repair and maintenance work of moist and salt damaged masonries inside and outside of buildings. The product is especially used on old masonry in cellars and foundation areas. PT Restoration Plaster HQ can also be used as an anti mold plaster.

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### Product advantages


- **Dry mortar**
- **Applicable in one layer**
- **Hydrophobic pores**
- **Fiber reinforced, no cracks**
- **Hydrophobic in fresh consistency**
- **HQ-Technology**
- **Thixotropic**
- **White color, no additional paint required**
- **Durable salt resistant**
- **Light filler free**
- **High pore volume**
- **Open for vapor diffusion**
- **Spayable**
- **Part of restoration plaster system**
- **Low chromate content**
- **„Made in Germany“**

**Specification**

Base	: white cement, quarz sand, additives
Color	: white
Processing temperature	: + 5°C up to + 30°C
Bonding strength (fracturing)	: > 0.1 N/mm <sup>2</sup>
Compressive strength	: > 2 N/mm <sup>2</sup>
Air content	: > 30 Vol.-%
Water asorption	: W 2
Water requirement	: approx. 7-9 l per 20 kg bag
Porosity	: according WTA > 40 Vol.-%
Water vapour diffusion resistance (μ-value)	: according to WTA < 12
Finishing after	: approx. 1.5 hours (depend of surface)
Mixing	: approx. 2-3 minutes
Thickness	: min. 2 cm
Consumption	: approx. 7.5 kg/m <sup>2</sup> /cm thickness depend of surface structure the consumption can increase.

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

	proof-tec GmbH Wiesedermeerer Hauptstr. 24 D-26446 Friedeburg  17 EN 998-1:2010 Unique identification code of the product-type proof-tec - 1211 EN 998-1:2010 Restauration Plaster (R) Plastering mortar for the use as external and internal plaster for walls, ceilings, pillars and partition walls
Reaction to fire Water absorption Water vapour permeability μ Adhesive bond Thermal conductivity λ <sub>10,dry,mat</sub>  Durability (Frost resistants) Dangerous substances	A1 ≥0,3 kg/m <sup>2</sup> nach 24h ≤15 ≥0,05 N/mm <sup>2</sup> in fracture pattern A, B or C ≤0,25 W/(m k) für P=50% ≤0,27 W/(m K) für P=90%  NPD – “No Performance Determined” NPD – “No Performance Determined”

**Delivery form**

20 kg bag

Article-No. 12110020

## 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 Restoration Plaster HQ. 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. 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 restoration plaster. So the substrate is re-solidified and salts are transferred from soluble to insoluble and during curing time of the Restoration Plaster HQ no salts can penetrate into the PT Restoration Plaster HQ during curing. The PT Restoration Plaster HQ can also be applied on top of a sealing slurry.

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. We don't recommend to use a steam cleaner or water for cleaning of surface. The use of a pre-plaster applied on 50-60% of the surface is recommended. Before application of PT Restoration Plaster HQ the pre-plaster must be cured.

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### Material

PT Restoration Plaster HQ must be mixed with clean water (hand processing approx. 7-9 l per bag, plaster machine processing approx. 225 l/per hour) and a suitable mixing device. A mixing time of 2-3 minutes must be observed. The complete plaster thickness should be minimum 2 cm and maximum 4 cm, depend of surface and salt content. We suggest to coat the surface in two layers. First layer with PT Restoration Plaster HQ in 1 cm thickness and let it cure (or roughen it), afterwards fully apply the second layer with 1cm thickness.

The material must be protected from fast drying (through wind, sun, rain). The humidity should not rise over 65% in the room where the pre-plaster is applied. In case of pressurized water a completely watertight sealing with PT Reactive-Slurry Crystalline or PT Reactive-Slurry Sulphate must be applied, afterwards PT Pre-Plaster and PT Restoration Plaster can be applied.

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### Recommended tools

Trowel  
Spatula  
Plaster board  
Gloves  
Safety glasses  
Plaster machine

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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.

Version 02/2021

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