

Technical Data Sheet

PT Restoration Plaster W

**- white restoration plaster -
(hydrophobic, salt resistant, open for water vapor diffusion)**

Product description

PT Restoration Plaster W is based on very special additives and white cement 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 W. Therefore, the plaster surface is free of salt efflorescence. PT Restoration Plaster W complies with the technical requirements of WTA Guideline 2-9-04.

Application areas

PT Restoration Plaster W 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 W can also be used as an anti mold plaster.

Product advantages

- **Dry mortar**
- **Applicable in one layer**
- **Hydrophobic pores**
- **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
Grain size	: 0.1 up to 1.2 mm
Processing temperature	: + 5°C up to + 30°C
Bonding strength (fracturing)	: > 0.1 N/mm ²
Bulk density	: approx. 1300 kg/m ³
Compressive strength	: > 3,5 N/mm ²

Air content	: > 30 Vol.-%
Water asorption	: W 0
Water requirement	: approx. 4,5 l per 30 kg bag
Porosity	: according WTA > 40 Vol.-%
Water vapour diffusion resistance (μ -value)	: according to WTA < 12
Finishing after	: approx. 6 hours (depend of surface)
Mixing	: approx. 2-3 minutes
Thickness	: min. 2 cm
Consumption	: approx. 1.1 kg/m ² /cm thickness, depend of surface approx. 11 kg/m ² /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: ZP 1

	proof-tec GmbH Wiesedermeerer Hauptstr. 24 D-26446 Friedeburg 17 EN 998-1:2010 Unique identification code of the product-type proof-tec - 1210 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	A1
Water absorption	≥0.3 kg/m ² nach 24h
Water vapour permeability μ	≤10
Adhesive bond	≥0.05 N/mm ² bei fracturing A, B oder C
Thermal conductivity $\lambda_{10,dry,mat}$	NPD
Durability (Frost resitants)	NPD– “No Performance Determined”
Dangerous substances	NPD – “No Performance Determined”

Delivery form

30 kg bag

Article-No. 12100030

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 Restoration Plaster W. 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 W no salts can penetrate into the PT Restoration Plaster W during curing. The PT Restoration Plaster W can also be applied on top of a sealing slurry.

The old salt and humid damaged "old plaster" must be removed minimum 100 cm above the visible damaged surface. Loose, sandy and damaged material has to be cleaned out of the joints, minimum 2-3 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 the pre-plaster must be cured.

Material

PT Restoration Plaster W must be mixed with clean water (hand processing approx. 4,5 l per bag, plaster machine processing approx. 190 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 3 cm, depend of surface and salt content. We suggest to coat the surface in two layers. First layer with PT Restoration Plaster W 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.

PT Restoration Plaster can be treated with water permeable colors or plasters. Please note that the subsequent coating must be open for water vapor diffusion.

Recommended tools

Trowel
Spatula
Plaster board
Gloves
Safety glasses
Plaster machine

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.