

Technical data sheet – Natural PCS plaster

10-05-25

DEFINITION

PCS natural plastering, to be sprayed or applied by hand, is a plaster based on natural plaster, lime and sand, suitable as a finishing plaster for interior walls and ceilings. It combines the easy-to-apply advantages of natural plaster with the water vapour permeability of lime. It produces a smooth, modern finish ready for painting.

AREAS OF APPLICATION

Natural PCS plaster is a single-coat rendering that can be applied to all rough, absorbent substrates, both in new builds and in renovations of existing buildings. For all smooth, non-porous substrates, apply a primer first. It can be applied to hemp blocks, concrete and lattice blocks, aerated concrete and terracotta blocks and bricks.

| TECHNICAL CHARACTERISTICS | VALUE | UNIT |
|---------------------------|---------|-----------------------|
| Bulk density | 1200 | kg/m ³ |
| μ | 10 - 12 | |
| λ | 0,73 | W/mK |
| Layer thickness | 5 - 25 | mm |
| Mixing | 11 - 12 | l/bag |
| Consumption | 12,5 | kg/m ² /cm |
| Usage time | 1,5 | hours |
| Limit of use | 5 à 30 | degrees |
| Drying time* | 2 à 5 | days |

*depending on the drying conditions

| VOLUME COMPOSITION | VALUE | UNIT |
|--------------------|-------|------|
| Natural plaster | 50 | % |
| Air lime | 17 | % |
| Sand | 33 | % |

PREPARATORY WORK

- Before application of the PCS plaster, remove all traces of dust, soot, previous plaster coatings, etc
- Clean old stone joints: use a hard brush if necessary
- Moisten the substrate if necessary

MANUAL APPLICATION

a. Mixing : Prepare the mixture with 11 to 12 liters of water with one bag of PCS in a bucket, and mix it well to obtain a firm and creamy paste. The mixture should rest for 10 minutes before application. The dosage is identical when using a spraying machine.

b. Applying the plaster : Apply the PCS plaster in a single coat at an average thickness of 12mm. However, if the PCS is to be applied in thicknesses greater than 25mm, it must be applied in two coats. The mixture should be applied to the wall within 45 minutes. It is advisable to wear gloves (and a mask when mixing).

c. Levelling :

•**For a manual application :** let the mixture set for 30 minutes before starting to dress with a straight edge

•**For machine projection :** smooth quickly with a straight edge

d. Smoothing : Leave to rest for 30 to 45 minutes before the smoothing with the blade. It is important to cut the plaster, not crush it. The trap is to push the material instead of cutting it. Wait until the plaster no longer sticks. Make sure the plastered areas are well-ventilated. Leave to dry for 30 to 60 minutes. If there are still any imperfections after the smoothing, leave and repeat with the blade. It is important not to destructure the rendering after too much work on it. Stop working it when bubbles form on the surface and do not touch them. This also applies to the first levelling operation.

e. Trowelling : Then use the sponge trowel. The trowel is completely wet in a bucket of water. The aim is to obtain a 'cream' which will allow the lime in the mixture to return and give a smooth effect. Lines should appear on the rendering. Wait about 30 minutes for the PCS to stop sticking.

f. Polishing : Polish with a polisher (use a soft, flexible tool, preferably stainless steel). This step can also be carried out with a flexible and soft blade (used before).

g. Final polishing : To achieve a perfectly smooth mirror effect: ideally the same day, when the wall is completely dry and hard, wet the surface with a spray and go over it one last time with a polisher from one end to the other. This final pass will remove any remaining imperfections.

MECHANICAL APPLICATION

The above operations apply. Use a conventional plaster spraying machine.

| STORAGE AND PACKAGING | VALUE | UNIT |
|----------------------------|----------------------------|-------------|
| Dimensions of a pallet | 120 x 100 x 90 | cm |
| Maximum weight of a pallet | 1000 | kg |
| Number of bags per pallet | 40 | bags/pallet |
| Bag weight | 25 | kg |
| Storage | Dry and away from moisture | |
| Storage life | 6 | months |

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