

Technical Data Sheet.

casuplast hydro – Gypsum machine plaster

Product description

casuplast hydro is a single layer gypsum plaster with mineral aggregates (limestone sand and perlite) and special additives to improve moisture resistance. casuplast hydro has been developed especially for indoor use on walls and ceilings in domestic kitchens and bathrooms. The surface is usually smoothed through the product can also be used as undercoat plaster for other coatings; casuplast hydro has been specifically formulated for machine application. Manual application is possible.

> Technical data and properties

Standard	Gypsum plaster B4 as per EN 13279
Yield as per standard	ca. 1,100 l/t ca. 110 m ² at 10 mm applied thickness ca. 2.7 m ² per 25 kg bag
Consumption	ca. 8.7 kg/ m ² per 10 mm applied thickness
Water requirement	ca. 14 l per 30 kg bag
Compressive strength	≥ 3.5 N/mm ²
Flexural strength	≥ 1.0 N/mm ²
Modulus of elasticity	< 2 kN/mm ²
Thermal conductivity (tabular value)	λ _R =0.33 W/mK
Grain size	0 - 1 mm
Water vapour permeability coefficient	μ < 8
Reaction to fire	Building material class A 1, not combustible

> Logistics and safety

Commercial form	bags
Shelf life	casuplast hydro can be stored in bags in dry and protected conditions for 6 months from the date of production.
Safety notes	See safety sheet.

> CE-marking



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CASEA-114 110
EN 13279-1: 2008
EN 13279-1 B4
Plastering of ceilings and walls within buildings

Reaction to fire	A1
Direct airborne sound insulation	NPD*
Thermal resistance	NPD*
Dangerous substances	NPD*

*NPD Eigenschaft nicht ermittelt, da nicht relevant (No Performance Determined)

Information

This product data sheet is intended to give advice to the best of our knowledge; it replaces any previous product data sheets. The contents of this product data sheet are not legally binding.

Substrates

Casuplast hydro can be applied on all types of masonry, on concrete and on plaster bases. The substrate must be dry, clean, firm and free from release agents. The residual moisture content of concrete must be below 3%. It is advisable to apply a suitable adhesive primer with a certain percentage of quartz sand on concrete surfaces, in particular on concrete with a smooth formed finish or on slightly absorbent concrete surfaces.

Processing and processing time

casuplast hydro is usually applied by machine. For manual processing, casuplast hydro is scattered into a clean mixing vessel filled with clear, fresh water and the plaster is stirred until free from lumps. A thinner consistency results in a longer processing time, a stiffer consistency shortens the processing time.

The plaster is applied in a suitable thickness, levelled, following partial development of rigidity levelled again, floated and smoothed.

The workability time, following initial mixing, is approximately 150 to 180 minutes. However, the workability time depends on the consistency of the plaster, the ambient temperature and the absorbency of the substrate.

For further information,

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Please note

- do not admix foreign substances
- keep to standard plaster thicknesses
- do not use at temperatures below +5°C or above +35°C of the substrate or the ambient temperature
- in the case of changes in the material of the substrate, embed a reinforcement
- the generally recognised rules of the art should be taken into account during application
- do not apply in two layers
- apply a gypsum adhesive primer or a suitable substrate preparation in the case of concrete or other slightly absorbent substrates
- when using the product as undercoat plaster for tiles or heavy coatings, do not smooth or float; instead merely screed vigorously.
- Disposal instructions: GISCODE: CP 1; water hazards class: 1; German regulation regarding safety at work: not applicable