

GHP 210 **BASIC COAT PLASTER**

CS II-W0-1

**ACCORDING TO
EN 998-1**

DESCRIPTION

GHP 210 is a ready-to-use, cement-based plaster appropriate for balling up (levelling) of surfaces used before final or decorative coating application. It is made of cement, lime hydrate, quartz sand

with 2,5 mm max. grain, lime fillers and improvement additives. DEC 440 ensures superior adhesion on all standard substrates. Produced and inspected based on the European Standard EN 998-1.

FIELDS OF APPLICATION

GHP 210 is used as a basic plaster in the 3-coat system by THRAKON and as a one-coat plaster provided that the prevailing conditions allow so and the resulting final

surface is approved. It is applied on a thin coat of THRAKON SHP 205 rough cast.

ADVANTAGES - FEATURES

- Produced with silica sand
- Perfect grain distribution
- Allows the surfaces to “breathe”
- Strong adhesion on the substrate
- Excellent workability
- Sticks to building surfaces without drooping
- High resistance – fast application
- Replaces traditional plasters
- CE-certified – according to the European Standard EN 998-1

SUBSTRATE PREPARATION

Make sure that the substrate is dry, solid, fixed, free from brittle materials, dust, colours, wax and grease. Cut off and remove any projecting parts of metal support down to 1 cm from the surface and cover them with primer. Slightly spray the substrate and apply a thin coat of SHP 205 rough cast. Leave the rough cast to dry for at least 10 days so that it dries completely. Before applying the basic plaster slightly spray the surface again. It is important though not to allow any running or standing water in the area. Also, concrete surfaces must also be completely dry otherwise there may be problems as to the plaster's adhesion to the substrate. Absorbing as well as old surfaces are stabilised with the use of GLX 290 acrylic primer before the rough cast application. Dilute in water at a ratio of 4 parts water: 1 part primer. The surface is ready for plastering after the primer has dried completely (approx. 2-6 hours).

Place a glass fibre mesh (see. mesh specifications) and bridge the connections of the different structural materials such as:

- beams and posts with bricks or YTONG
- headsills and lintels with bricks or YTONG• heat-distributing plates (extruded or expanded polystyrene, rock wool) with brick or YTONG
- polystyrene foam with YTONG and concrete
- electrical and hydraulic installations channels

Moreover, the use of glass fibre mesh is imposed in cases where:

- you want to plaster on heat-distributing plates or
- you have YTONG wall seizures with polyurethane foam

If you want to apply plaster on plastic or metal surfaces or on top of projecting elements (cables, gutters, etc.) you must use a metal grid (e.g. rib lath).

On edges of openings (on doors, windows, etc) place a strip of glass fibre grid vertically towards the opening diagonal. Also, place a glass fibre mesh strip along the lintel and one along the window apron.

The mesh must be placed on 2/3 of the plaster coat facing outwards. In practice, this is achieved if you first apply 2/3 of the GHP 210 plaster coat and you then use the grid taking care that it remains

stretched without folds. Finally, cover the remaining 1/3 of the plaster coat.

More specifically, for plastering on heat-distributing plates, you shall get the best result if, before applying the plaster, you apply a mesh on all surfaces using the THRAKON THC 409 adhesive, in such a way as to bridge all connections both between the plates themselves and between the plates and the walls.

CORNER BEADS-SCOTIAS

The use of stainless or galvanized corner beads, guides, scotias or grids is suggested for corrosion prevention. Alternatively, you may use corner beads or scotias made of PVC. Installation must be performed one day before

plastering (depending on the size of the structure). For support, we suggest that you use the same material that is to be used for plastering. Corner beads are aligned so that they ensure vertical and horizontal edges on walls.

PREPARATION METHODS

Preparation and application of the material with continuous mixer

This is the suggested method of production and application of plaster, since it ensures correct proportion of water as well as the necessary mixing time. Make sure that you have the necessary water and power supply and connect the machine. Take care so that the pressure of the water supply is not less than

2 bar. Fill the machine bucket with the material. Start the machine without hose and adjust the water supply in the required level so that the material produced (plaster) may be easily applied, without running down or drooping. Then connect the hose and start working.

Hand-preparation of material in a container

In a clean container add 6.4-7.2 litres of clean water and gradually empty the content of a 40 Kg sack of product GHP 210, mixing continuously with an electric mixer in order to acquire a uniform mortar mass. Let the resulting mixture age

for 5 minutes and mix again. The mixture is ready to be used within the next 5 hours.

Following the preparation of the mixture do not add more water in order to correct the workability of the mortar. This will lead to the reduction of its tolerances and the increase of its shrinkage.

Preparation of the material with traditional piston machine

GHP 210 can be used with traditional (piston) machines, if you have the relevant experience and after you consider some significant parameters such as proportion and mixing time. An extended mixing time will lead to dropping and flaking off of the plaster. Following the preparation of the mixture do not add more water in order to correct the workability of the mortar. This will lead to the reduction of its tolerances and the increase of its shrinkage.

APPLICATION

Application is done on appropriately prepared surface. Lay an even coat of up to 2.5cm. Immediately and while the plaster is still fresh, smooth the surface using a metal edge, passing over the metal guides and the corner beads. After smoothing the plaster, remove the guides and fill in the gaps with fresh plaster. Homogenise the material with which you filled in the gap with the remaining plaster working from right to left so that the entire masonry will dry evenly and no cracks will appear. For plastering coats over 2.5 cm you need to use two coats. The second coat is applied on top of the first after the latter has dried a little so that it won't droop (fresh on fresh). After application and smoothing, carve the

surfaces with an aciculate tool to ensure best adhesion of the coats that will follow, restrict the shrinkage forces of the plaster and the appearance of cracks.

You must avoid smoothing the plaster by pressing it while the plaster is still fresh, because plaster condensates and the possibility of flaking-off increases.

If you wish to use the plaster as the final surface, then you must rub it with a hard float as soon as it begins to dry so that its surface becomes flat and the necessary texture is achieved. The time needed for a plaster to dry may be affected by the prevailing weather conditions and the state of the building structure.

The technical information and instructions contained in the present brochure and referring to the application and end use of Thrakon products are based on the up to now know-how and experience of the Company with regards to the products and are provided in good faith as long as such products are stored, used and applied as per Thrakon recommendations. Due to the inability, on our part, to directly inspect the conditions prevailing at the worksite as well as the application procedures of the product, the Company does not provide any guarantee with regards to the adequacy of its products for specific purpose while the Company shall not bear any legal responsibility based on the information stated in the present brochure or any other written, oral, or otherwise provided recommendations and instructions. The users of the products are advised to perform a limited surface testing of the products adequacy for the eventual application and use intentions. Thrakon reserves the right to modify the features of its products without prior notification. All orders shall be approved only following acceptance of the above and under the eventual Commercial Policy terms of the Company. The issuance of the present brochure voids any prior version.

GHP 210 **BASE COAT PLASTER**

CS II-W0-A1

**ACCORDING TO
EN 998-1**

AFTER PLASTERING

After plastering and particularly during summer months and also on walls exposed to extreme sun, you must obstruct fast evaporation to avoid cracks. For this reason, we suggest that you slightly rinse the wall every two days after plastering and cover it with protective sheets (e.g. sackcloth), that will also help in

better development of the plaster's resistance. Plastered surfaces, while still fresh, must be protected from rain and frost, for crack prevention. Depending on the prevailing weather conditions, you should leave the plaster to dry completely for 15-20 days before applying the final coat.

FINAL SURFACE

For surface finishing you may use any final coating by THRAKON such as FHP 225-0 or 1 with marble and FHP 221-2 or 3 with quartz sand, as well as decorative

coatings such as DPR 440, DEC 424 or DEC 425. Moreover, you may apply the troweling material DEC 470 indoors, or leave the surfaces as final after rubbing.

CONSUMPTION

14-15 kg/m² in 1cm coat

MODIFICATION

If while preparing the mixture you add 40-80g of GLX 296 emulsion per kilo and the necessary quantity of water, you will enhance the product which will gain:

- greater elasticity
- impermeability
- Stronger adhesion on the substrate

- the possibility of applying it on thinner or thicker coats than suggested as well as straight on demanding substrates such as:
- polystyrene and
- masonry areas that need repair.

PACKAGING - STORAGE

The product is available in 25, 40Kg valve-sacks and big-bags for THRAKON silo. Stored on wooden pallets

in dry environment at temperatures above 0°C for 12 months after production.

TOOL AND MACHINERY CLEANING

Rinse with water immediately after use.

APPLICATION IS NOT RECOMMENDED

- In case of frost forecast for the next 24 hours from plaster application.
- In wet conditions (such as rain).
- In case of masonries directly exposed to intense solar radiation or hot substrates.

Technical Support Line 800 100 14 14 support@thrakon.gr • www.thrakon.gr



PRECAUTIONS

GHP 210 contains cement and reacts with water, creating an alkaline solution. For this reason protect your eyes and skin. In case of contact wash with plenty of water. In case of contact with the eyes seek immediately medical advice. Read the

information contained on the label and the Technical Sheet of the product before use. Use adequate protective clothing and gloves. The Safety Sheet of the product is availed to professionals upon request.

TYPE IV - W0 - A1 OF EUROPEAN STANDARD EN 998 - 1

TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUE
Appearance			dry powder
Color			grey
Application thickness per coat	(mm)		10-25
Application temperature	(°C)		+5 to +35
Temperature resistance	(°C)		-30 to +90
Reaction to fire	(% organic)		≤ 1,0
Maximum grain size	(mm)		2,5
Workable life	(h)	EN 1015-9	5
Dry bulk density	(Kg/l)		1,45-1,55
Bulk density of fresh mortar	(Kg/l)	EN 1015-6	1,40-1,50
Dry bulk density of hardened mortar	(Kg/l)	EN 1015-10	1,35-1,45
Smoothing time	(h)		2,25
Strength development time	(days)		28
Compressive strength	(N/mm ²)	EN 1015-11	1,5-5,0
Flexural strength	(N/mm ²)	EN 1015-11	1,5-2,0
Adhesive strength	(N/mm ²)	EN 1015-12	≥0,28
Water vapour permeability coefficient	(μ)	EN 1745	5/20
Water absorption coefficient	(kg/m ² *min ^{0,5})	EN 1015-18	NPD
Consistence of fresh mortar	(cm)		14,5-16,5
PH of fresh mortar			>10
Consumption	(Kg/m ² per 1cm)		14-15
Water demand	(ml water/ 100g of dry mortar)		16-18

Note: The measurements were taken in laboratory environment under a temperature of +23°C, Relative humidity 50 % and without ventilation. It is possible for them to vary depending on the conditions prevailing at the worksite, such as temperature, humidity, ventilation, absorability of the substrate.

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