

SHP 205 **ROUGHCAST PLASTER**

CS IV-W0-A1

ACCORDING TO
EN 998-1

DESCRIPTION

Product SHP 205 is ready-to-use cement-based roughcast, for preparation of surfaces prior to balling up. It contains cement, quartz sand with 3,5mm max. grain size, limestone fillers and improvement additives. SHP 205 offers high resistance, perfect adhesion ability and

functions as the adhesion bridge between the masonry and the next coats of plaster. Moreover it ensures smooth absorbability of all surfaces that are to be plastered. Produced and inspected as per the European standard EN 998-1.

FIELDS OF APPLICATION

It is appropriate for both interior and exterior applications.

Appropriate for application on :

- concrete
- masonry (bricks, cement blocks, porous concrete, etc)
- ceilings
- surfaces covered with insulation materials
- plastic or metal pipes

For cases of very difficult surfaces such as bear concrete, you may add the support emulsion GLX 296.

ADVANTAGES - FEATURES

- Produced with silica sand
- Perfect grain distribution
- Rough top surface for stronger adhesion of subsequent plaster coats
- 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 of 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.

Repair any imperfections caused by mould removal and any other major imperfections or gaps on the masonry using special repair mortar. Seal any water leakages. Bridge the connections of the different structural elements with the appropriate glass fibre mesh. Also

place glass fibre mesh on electrical and hydraulic installations and on the corners of openings.

Before applying the roughcast spray the surface without leaving any standing water. Absorbing as well as old surfaces are stabilized with the use of GLX 290 acrylic primer before roughcast 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).

PREPARATION METHODS

Preparation and application of the material with continuous mixing machine

This is the suggested method of production and application of plaster, since it ensures the 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 the hose and adjust the water supply to the required level so that the material produced (plaster) may be applied with spatters in the form of spray. Then connect the hose and start working.

Apply the roughcast evenly in the form of spray on all surfaces, in 5 - 8 mm coats. Take care so that the plaster penetrates and fill up the gaps.

Leave the plaster to dry completely, depending on the prevailing conditions before applying the next coat. Avoid plastering surfaces under extreme solar radiation or during (and even when expecting) heat wave or frost

For the first 2 days following application spray the plastered surfaces with a small amount of water.

Hand-preparation of material in a container

In a clean container add 6.8-5.0 litres of clean water and gradually empty the content of a 40 Kg sack of product FSW 205, 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 for use in 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

SHP 205 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 the plaster dropping and flaking off.

CONSUMPTION

The consumption of SHP 205 is approximately 5kg/m² per 0,5cm coat thickness.

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 packaged 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.

TOOLS

shovel, jets, floats and other common plastering tools

TOOL AND MACHINERY CLEANING

Rinse with water immediately after use.

APPLICATION MACHINES

- Continuous mixing machines
- Traditional piston machines

APPLICATION IS NOT RECOMMENDED

- In case of frost forecast for the next 24 hours from plaster application.
- In wet conditions (such as rain).

PRECAUTIONS

SHP 205 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 available 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) | | 5-10 |
| Application temperature | (°C) | | +5 to +35 |
| Temperature resistance | (°C) | | -30 to +90 |
| Reaction to fire | (% organic) | | ≤ 1,0 |
| Maximum grain size | (mm) | | 3,5 |
| Workable life | (h) | EN 1015-9 | 5 |
| Dry bulk density | (Kg/l) | | 1,60-1,70 |
| Bulk density of fresh mortar | (Kg/l) | EN 1015-6 | 1,85-1,95 |
| Dry bulk density of hardened mortar | (Kg/l) | EN 1015-10 | 1,85-1,95 |
| Smoothing time | (h) | EN 196-3 | 4-7 |
| Strength development time | (days) | | 28 |
| Compressive strength | (N/mm ²) | EN 1015-11 | ≥8,0 |
| Flexural strength | (N/mm ²) | EN 1015-11 | ≥3,0 |
| Adhesive strength | (N/mm ²) | EN 1015-12 | 0,56 |
| Consistence of fresh mortar | (cm) | | 14,5-16,5 |
| Water vapour permeability coefficient | (μ) | EN 1745 | 5/35 |
| Water absorption coefficient | (kg/m ² *min ^{0,5}) | EN 1015-18 | NPD |
| PH of fresh mortar | | | >10 |
| Consumption | (Kg/m ²) | | 5 |
| Water demand | (ml water/ 100g of | | 20-22 |

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, absorbability of the substrate.

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.