

CLIMAPLUS DEC 425 RILLEN

WHITE DECORATIVE PLASTER – RILLEN TYPE

The DEC 425 RILLEN product is a ready to use, white, decorative, cement-based, final layer plaster. It consists of cement, lime, marble and ameliorative additives. It is produced in different granulometries: with maximum grain size of 2.0 mm and 3.5 mm. It is a water repellent plaster, UV resistant, shows a very strong adhesion to inorganic substrates and ensures decorative and smooth surfaces before painting. It is produced and controlled according to the EN 998-1 European standard.



Advantages:

- Produced with super white limestone aggregates.
- Water repellent.
- Optimum granulometric distribution.
- Surface breathability.
- Strong adhesion on the substrate.
- Excellent workability and thixotropic behavior.
- Remains on the surface of the structure without pouring.
- Strong resistance – rapid application.
- Optimum finishing – smooth surfaces.
- Replaces traditional plasters.
- Certified with CE – according to the EN 998-1 European standard.



TECHNICAL CHARACTERISTICS



Packaging:

Valve paper bags
• 25kg



Application:

Suitable for application as a final layer plaster in the 3 layer plaster system of THRAKON. Internally and externally on fences and thermal insulating systems on concrete, bricks, aerated concrete etc.



Shades:

Available in white.



Storage:

Store in sealed bags in a dry environment at temperatures above 0° C for 12 months from the production date.



Consumption:

The consumption of the DEC 425 RILLEN product is approximately:

- 3.0-3.5 kg/m² for 2.0 mm grain size.
- 5.5-6.0 kg/m² for 3.5 mm grain size.



Tools cleaning:

With water immediately after the application.

FIELDS OF APPLICATION

The DEC 425 RILLEN product is used as a final layer plaster in the 3 layer plaster system of THRAKON, internally, externally, on fences, on outdoor thermal insulating systems and on substrates like concrete, bricks, aerated concrete etc. It is applied on the GHP 210 basic layer plaster. It can also be applied on surfaces plastered with the FHP 225 WR and FHP 221 WR final layer plasters. It is suitable both for indoor and outdoor use.

METHODS OF PREPARATION

Material preparation by a plastering machine:

Firstly connect the power supply (3-phase) and the water supply and the system is ready to use. As soon as the water flow is adjusted to produce a mixture with the desired workability, the plastering machine is ready to produce a plaster with constant coherence.

Material preparation by hand in a container

In a clean container add 4,75-5,0 lt of clean water and gradually empty the content of a 25 kg bag of the DEC 425 RILLEN product while continuously mixing with an electrical agitator, in order to produce a homogenous mortar mass. Leave the produced mixture to mature for 5 minutes and agitate it again for a while. The mixture is ready to use within 1 hour. Do not add additional water to correct the workability of the mortar. This will result to a decrease of its strength and to an increase of its shrinkage.

MODIFICATION

If during the preparation, 40-80 g of GLX 296 per product kilogram are added to the mixture along with the necessary quantity of water, the workability of the product is significantly improved and the following characteristics are enhanced:

- Greater elasticity
- Impermeability
- Stronger adhesion on the substrate

In addition, the product will have the ability to be applied on smaller or greater thickness than the recommended as well as the ability to be applied directly on difficult substrates such as polystyrene, visible concrete and parts of the masonry that require repair.

SUBSTRATE PREPARATION

Make sure that the substrate is dry, firm, solid, free from frail materials, dust, colors, wax and oils. Before the application of the plaster, it is necessary to even and level the walls, to align the edges, on the corners of the openings and the beams, in order to achieve a nice finish without waste. For the above substrate preparation, it is recommended to use the THRAKON materials SHP 205 (thrown plaster) and GHP 210 (basic layer plaster). Leave the basic plaster for at least 3 weeks to dry completely. Then, slightly wet the basic plaster and apply a thin layer of DEC 425 RILLEN. However, it is important that there is no running or standing water. The absorbent as well as the old surfaces are stabilized with the application of the GLX 290 acrylic primer before the thrown plaster, diluted at a ratio of 4 parts water to 1 part primer. The surface is ready for plastering after the primer is completely dry (approximately 2-6 hours).

In case you want to plaster with DEC 425 RILLEN surfaces of polystyrene (such as ceilings) the substrate preparation requires:

- Firstly, the application of the system adhesive-mesh-adhesive directly on the polystyrene using THRAKON materials THC 405.
- Next, application of the DEC 425 RILLEN plaster at the recommended thickness.

In case the leveling of the surface covered with polystyrene (like supports and beams) is also required, this is performed as follows:

- Firstly apply the system adhesive-mesh-adhesive directly on the polystyrene using THRAKON materials THC 405.
- Then consecutively apply the thrown plaster SHP 205 and the basic layer plaster GHP 210.
- Finally, create the surface finish with the DEC 425 RILLEN plaster at the recommended thickness.

APPLICATION

Using a steel trowel apply uniformly a thin layer of decorative plaster on the entire surface. Even the surface using a rubber float with very slight pressure. Before the plaster gets dry, using the rubber float, press slightly to shape the final surface making circular moves. The decorative plaster provides a final surface with 2.0-3.5 mm thick lines per case, vertical or circular. The plaster must not be soaked after application and the tools must not be wet during the application. The suitable application thickness is:

- 2.0 mm for 2.0 mm maximum granulometry
- 3.5 mm for 3.5 mm maximum granulometry

If you use the decorative plaster on small areas (like frames etc.) or arched surfaces (like supports), you can apply it using a hard brush. In this case add more water and a small quantity (1-2 kg per 25 kg bag) of THRAKON GLX 296 additive. Stir the mixture, in order to provide an easily spread paste. In this way, you can apply the decorative plaster in one or two layers. The final style of the surface is performed in the same way. If you desire a great line density, multiply your movements. When DEC 425 RILLEN is completely dry, it is recommended that you coat it with the GLX 294 impermeable surface coating. In doing so, you will be protecting the plaster from future stains while the dirt that deposits on the surfaces will be easily cleaned. If the surface is not levelled and the final result is not the desired after one layer, you can apply a second one after the first is dry enough. Do not apply the plaster on cracks or connections of different structural elements. Do not apply the product on cracks or connections of different structural elements.

APPLICATION TEMPERATURE

During the application and also during the following 24 hours the ambient and the substrate temperature must be between +5° C and +35° C. Application is not recommended when there is a frost forecast for the following 24 hours, under wet conditions (rain) or on masonries directly exposed to intense solar radiation or warm substrates.

PRECAUTIONS

DEC 425 RILLEN contains cement and reacts with water to produce an alkaline solution. For this reason protect the eyes and skin. In case of contact rinse with plenty of water. In case of contact with the eyes seek medical advice immediately. Read the information on the label and in the product's Technical Brochure before use. Wear appropriate protective clothing and gloves. The product's Safety Sheet is available to professionals upon request.

Technical characteristics		Units	Standard	Value
Appearance				Dry powder
Color				White
Application thickness	2.0 mm	mm		2.0
	3.5 mm			3.5
Application temperature		°C		+5 to +35
Temperature resistance		°C		-30 to +90
Maximum grain size		mm		2.0
				3.5
Workable time		min	EN 1015-9	50
Dry bulk density		kg/l		1.55 ± 0.1
Bulk density of fresh mortar		kg/l	EN 1015-9	1.50 ± 0.1
Dry bulk density of hardened mortar		kg/l	EN 1015-10	1.70 ± 0.1
Smoothing time		min		45-60
Strength development time		days		28
Compressive strength		N/mm ²	EN 1015-11	11.0 ± 1.0
Flexural strength		N/mm ²	EN 1015-11	4.0 ± 0.5
Adhesion to the substrate		N/mm ²	EN 1015-12	>0,35
Air content		%	EN 1015-7	>20
Water retention		%	EN 1015-8	>85
Water vapor permeability coefficient		μ	EN 1745	5/20
pH of fresh mortar				>10
Consumption	2.0 mm	kg/m ²		3.0
	2.5 mm			5.7
Water demand (per 100 g of dry mortar)		ml		19-20

*Note: The measurements were taken in laboratory environment under normal temperature and relative humidity conditions (+23°C, 50%). It is possible for them to vary depending on the conditions prevailing at the worksite (temperature, humidity, 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.

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