

WRM 550 FAST SETTING REPAIRING PLASTER

C2 IV-W2-A1

ΣΥΜΦΩΝΑ ΜΕ
EN 998 -1

DESCRIPTION

WRM 550 is a white, fast setting (30 minutes), repairing and cement based plaster/render. It is a non-shrinkage mortar with strong adhesion to concrete, masonry and old plasters. It consists of cement, hydrated lime, mineral fillers and additives. It is ideal for all types of plaster repairs for interior and exterior use. Mixing with water results to a paste that can be applied by trowel or metal

spatula and by continuous mixing plastering machine. The setting time of the product is less than of common plaster. Its strength is more than twice that of common plasters and it meets the requirements for repairs. It is produced and controlled according to EN 998-1.

FIELDS OF APPLICATION

WRM 550 is suitable for:

- Plastering of old or new constructions.
- Small repairs (patching).
- Filling holes.
- Repairing detached plaster pieces.
- Wide cracks and missing endings.

ADVANTAGES

- Fast setting (30min)
- Rapid development of strengths (24 hours)
- Strong adhesion on the substrate
- Non-shrinkage.
- Water repellency
- High strength – Fast application
- Allow the surfaces to "breathe"
- Excellent workability
- Produce with quartz sand
- Resistance to moisture and vapor
- Resistance to ageing
- Resistance to oil and solvents
- Non-flammable
- CE certified - according to EN 998-1

SUBSTRATE PREPARATION

Remove loose, detached or cracked parts of plaster with the help of a tool (chisel or spatula or other). Thereafter clean thoroughly the surface using a hard brush, and wash very well to remove all dust. Rinse the wall with

water until saturation. Repair any damage on the masonry with appropriate repairing material. Prime the surfaces that will come in contact with the repairing plaster with the acrylic primer GLX 290.

APPLICATION

In a clean container add:

- 4,25-4,5 lt of clean water for bag 25kg
- 0,85-0,90 lt of clean water for bag 5kg

gradually empty the content of the bag while mixing continuously, in order to produce a homogenous mass of mortar. Leave the mixture to mature for 3 min and mix again briefly. During the application you must also mix gradually. After the preparation of the mixture do not add additional water to correct the workability of the mortar. This shall lead to the decrease of the mechanical strengths and to the increase of its shrinkage.

WRM 550 is applied like the ordinary plaster and is treated with a sponge float after about 30 minutes. But we have to bear in time that the waiting time until the surface is suitable for treating with float varies with temperature, absorbency of the substrate and amount of water in the mix. After the preparation of the mixture apply the first coat of plaster (adhesion layer) using the repairing mortar WRM 550, taking care to come into tight contact with the existing surfaces, both masonry and

old plasters. Where necessary we insist pressing by using the trowel to ensure a better contact. After the first coat sets we apply the final coat again using the repairing mortar WRM 550. When the final coats also gets dry we treat the surface with the lath and then if necessary we smooth it with the float. Where the substrate is composed of insulating layers (eg, polystyrene, polyurethane, etc.), such as beams, columns, walls, etc. recommended that, when implementing the WRM 550, reinforcement fiberglass plaster to avoid cracking due to the specific thermal strain on the plaster on these surfaces and because of the different expansion coefficient of the individual layers. The fiberglass of the plaster placed with light pressure when applying the final coat of WRM 550, extends 10-15 cm beyond the coverage area of insulation boards and is completely covered by WRM 550.

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CONSUMPTION

13-14 kg/m² per 1 cm thickness..

STORAGE

In 25 Kg paper bags and in 5kg plastic bags . In a dry environment at temperatures above 0°C for 12 months its production date.

CLEANING OF TOOLS AND MACHINES

With plenty water after use.

NOT RECOMMENDED

You may not apply the product:

If weather is cold for the next 24 hours of the application of the product.

In humid conditions (rain).

On substrates exposed to direct sunlight or in hot substrates

ENHANCEMENT

Recommended where needed increased support surface and resistance to contraction improver additive used in THRAKON GLX 296.

Mixing ratios GLX 296:

GLX 296 added to the mixing water in a ratio

- GLX 296 : water = 1: 3 for the first layer of plaster repair WRM 550
- GLX 296: water = 1: 5 for the final coat of plaster repair WRM 550

Finally, and if necessary smoother surface apply final coat plaster of THRAKON eg FHP 221 or FHP 225 Recommended maintaining the liquid surface, and the avoidance of rapid evaporation in the early days of the application, especially when the temperature is high or when the application is made under strong sunlight

During the application and during the following 24 hours the temperature of the environment and the substrate should be between +5 and +35 ° C. If prevailing conditions is abrupt drying of the plaster, such as high temperatures, sprinkle the plaster with water for 2 days after application.

PRECAUTIONS

Protect eyes and skin. In case on contact, wash with soap and water. In case on contact with eyes, rinse with water for several minutes. If there are remove contact lenses, if easily. Continue to rinse. Seek immediate medical advise because is requires special treatment. Wear suitable protecting clothing and gloves. The infected clothing should not be allowed out of the workplace.

Wash thoroughly after handing. Rea the information on the label and in the technical brochure of the product before use. The MSDS of the product is available upon request for professional.

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WRM 550

FAST SETTING REPAIRING PLASTER-WHITE

C1 V1-W2-A1 TYPE OF EUROPEAN STANDARD EN 998 - 1

TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUE
Form			Dry powder
Color			White
Thickness of application	(mm)		2 cm per layer
Temperature of application	(°C)		+5 to +35
Temperature resistance	(°C)		-30 to 190
Reaction to fire	(% organic)		≤ 1,0
Maximum grain	(mm)		1,4
Compressive Strength	(min)	EN 1015-9	≥ 30
Specific gravity of dry mortar	(kg/l)		1,50 ± 0,10
Density of mixtute	(kg/l)	EN 1015-6	1,70 ± 0,10
Density of cured product	Kg/l	EN 1015-10	1,60 ± 0,10
Time of scrubbing	(min)		30
Strength development time	(hours)		24
Compressive Strength	(N/mm ²)	EN 1015-11	≥ 10,0
Flexural strength	(N/mm ²)	EN 1015-11	≥ 3,0
Adhesion to the substrate	(N/mm ²)	EN 1015-12	≥ 0,27
Water vapor permeability coefficient	(μ)	EN 1745	5/35
Capillary water absorption coefficient	(kg/m ² *min ^{0.5})	EN 1015-18	≤ 0,20
Coefficient of thermal conductivity	W/(mk)	EN 1745	0,67
Consumption per layer 1 cm	(Kg/m ²)		13-14
Water ratio	(ml water/100 g of dry mortar)		17-18

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, absorbability of the substrate

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