

WRM 512 BUILD

MORTAR FOR PLASTERING AND BUILDING

CS II-W0-A1
M5-A1

ACCORDING TO
EN 998 -1

ACCORDING TO
EN 998 -2

DESCRIPTION

WRM 512 is a mortar suitable for building and plastering. It consists of cement, lime, quartz sand, limestone aggregates and improvers. It has strong adhesion to all common substrates and excellent

workability. It is suitable for indoor and outdoor use. It is ideal for all kind of repairs and restoration of plaster and masonry. It is produced and tested according to the European standards EN 998-1 (plasters) and EN 998-2 (masonry mortars).

FIELDS OF APPLICATION

WRM 512 is suitable for:

- Minor repairs
- The restoration of fallen plasters and simple cracks in the masonry.

ADVANTAGES

- Multiple construction with only one material.
- Strong adhesion to the substrate.
- High strength - Fast application.
- Allows surfaces to "breathe".
- Excellent workability.
- Produced with quartz sand.
- Certified with CE - according to European standards EN 998-1 & EN 998-2.

SUBSTRATE PREPARATION

First we remove the loose parts of the plaster or parts of plaster that have been detached or cracked by means of a suitable tool (chisel or spatula or other. Then clean the surface thoroughly with a hard brush, and wash it thoroughly to remove all dust. We keep the wall wet

until saturation. We repair any faults in the masonry with appropriate repair material as appropriate. We prime the surfaces that the repair plaster will come into contact, with the acrylic primer GLX 290.

APPLICATION

In a clean container add 4,6-4,7 litres of clean water and 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 a decrease of resistances and to the increase of its shrinkage.

WRM 512 is applied like common plaster or common masonry mortar.

For plaster application:

It is normally rubbed with a spongy flute. Note that the waiting time for rubbing varies with temperature, substrate absorbency and mixing water ratio. Apply the first coat of plaster using the repair mortar WRM 512, taking care to bring the repainting plasters back into contact with the existing masonry and old plaster surfaces. Where necessary, insist on the trowel to ensure better contact. Next, when the first coat is coat, the final coat of plaster is followed by WRM 512 repair mortar. When pulling and the final layer is passed through the bar, then if it is necessary to smooth it with a bit.



Substrates of heat-insulating panels (eg polystyrene slabs, etc.), such as columns, beams, etc., are recommended to reinforce WRM 512 with glass mesh to prevent cracks. The glass mesh is placed in the following way: A first coat of plaster is applied and while still fresh, the glass strip is pressed gently to become the

same with plaster. Then a second and final coat is applied. The purpose is that the grid is fully integrated with WRM 512 and is located at 1/3 of the thickness of the plaster from the outside to the inside. Finally, the mesh should also cover the area on both sides of the thermal insulation plates by 10-15 cm.

CONSUMPTION

Approximately 15kg/m² per 1cm application thickness

CLEANING OF TOOLS AND MACHINES

With plenty of water immediately after use.

STORAGE

The product is packaged in 25Kg paper valve bags and it is stored sealed in a

dry environment with temperature above 0°C for 12 months from the production date.

NOT RECOMMENDED

The application of the product is not allowed:
When there is a frost forecast for the 24 hours following the application of the product.

Under wet conditions (like rain).
On substrates directly exposed to intense solar radiation or on warm substrates.

REINFORCEMENT

It is recommended to use the THRAGON GLX 296 polymer latex where it is necessary for increased surface enhancement and resistance to contraction. Mixing ratios **GLX 296**:

- **GLX 296** is added to the mixing water in a proportion
- GLX 296: water = 1: 3 for the first coat of repair mortar **WRM 512**
- GLX 296: water = 1: 5 for the final coat of repair mortar **WRM 512**

It is recommended to keep the surface wet and avoid rapid evaporation in the first days of application, especially when the temperature is high or when the application is under strong sunlight. During the application and during the next 24 hours the temperature the environment and the substrate should be between +5 and + 35 ° C. If conditions of abrupt drying of the plaster, such as high temperatures, prevail, sprinkle the plaster with water for the first 2 days after application.

PRECAUTIONS

WRM 512 product contains cement and reacts with water to produce an alkaline solution. For this reason protect your eyes and skin. In case of contact rinse with plenty of water. In case of contact with 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.

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TYPE CS II – W0 – A1 OF EUROPEAN STANDARD EN 998 - 1 και M5 – A1 OF EUROPEAN STANDARD EN 998 - 2

TECHNICAL CHARACTERISTICS	UNTIS	STANDARDS	VALUE
Appearance			Dry powder
Color			Semi white-grey
Thickness of application	(mm)		2 cm per coat
Application temperature	(⁰ C)		+5 up to +35
Temperature resistance	(⁰ C)		-30 up to +90
Reaction to fire	(Class)		A1
Maximum grain size	(mm)		1,4
Workable life	(min)	EN 1015-9	2 hours
Dry bulk density	(kg/l)		1,35 ±0,10
Bulk density of fresh mortar	(kg/l)	EN 1015-6	1,45 ±0,10
Dry bulk density of hardened mortar	Kg/l	EN 1015-10	1,35 ±0,10
Compressive strength	(N/mm ²)	EN 1015-11	≥5,0
Flexural strength	(N/mm ²)	EN 1015-11	≥1,4
Adhesion to substrate	(N/mm ²)	EN 1015-12	≥0,29
Water vapour permeability coefficient	(μ)	EN 1745	5/20
Thermal conductivity coefficient λ (λ _{10,dry})	(W/mK)	EN 1745	0,47
Initial shear strength	(N/mm ²)	EN 998-2	≥0,15

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..