

WRM 500

FAST SETTING HYDRAULIC MORTAR

DESCRIPTION

WRM 500 product is a cement based, high specification sealing mortar, with silicate aggregates with high silicone content and

chosen granulometry. It is a one-component product, super fast setting (3 min setting time), non shrinkable and requires only water for its preparation

FIELDS OF APPLICATION

It ensures the direct sealing of water leakages under pressure. It seals crevices, holes and joints in all masonry and concrete constructions, such as:

- dams
- sewers
- wastewater tanks
- water tanks
- underground spaces

- tunnels
- foundations

It is also suitable for anchoring :

- bolts
- piping
- sanitary ware
- and in general for works that require fast and strong support

ADVANTAGES - CHARACTERISTICS

- Sealing of leaks even under pressure
- It sets in 3 min
- It is produced with quartz sand
- It is also suitable for anchoring

- Resistance to humidity and vapors
- Resistance to ageing
- Resistance to oils and solvents
- Non flammable

SUBSTRATE PREPARATION

The holes and crevices are broadened depth and width by about 20 mm approximately. The hole must be washed with water in adequate pressure in order to remove the broken parts and the dust, and to

remove the excess water. In the case of using WRM 500 in sanitary ware and on dry surfaces, you must pre-moisten with clean water.

APPLICATION

Add 210 - 230 ml of clean water per kilogram of material in a clean container and add the material gradually while mixing with fast and strong movements using a spatula, in order to produce a homogenous paste. Then, take the mass in your hands (which shall be protected by gloves) and blend it in order to gain the required plasticity and immediately press it in the hole you want to seal, pushing it in order to penetrate everywhere and seal the void. In case of a water leakage press with your hand for a little while until the material is completely set. Given that the material sets quite rapidly (in approximately 3 min) prior to preparing the mixture ensure that all the necessary preparations are done, you have all the necessary auxiliary,

that you are close to the surface to be repaired and that you have made small quantities in order to be able to use them within the available time. If you wish to reduce the coagulation time use lukewarm water, while you can achieve the contrary if you use cold water. The product must be applied when the ambient temperature is between +5°C and +35°C. When the temperature is high, the strength develops faster, while the workability of the material decreases. In low temperatures, the strength development is delayed. It is recommended to maintain the surface wet and to avoid rapid evaporation especially when the temperature is high or when the application is performed under a strong sun.

CONSUMPTION

1 kg yields approximately 0.6 lt of ready liquid mortar.

PACKAGING - STORAGE

The product shall be packed in 4 kg plastic containers and shall be stored sealed in a dry environment with temperature above 0°C for 6 months from the date of production

TOOLS

Small plastic containers and a metallic spatula are used for the preparation of the material. Additionally, and because the material is processed by hand, plastic gloves are used.

CLEANING OF TOOLS AND MACHINES

With plenty of water immediately after use.

PRECAUTIONS

The WRM 500 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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TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUE
Appearance			dry powder
Color			grey
Mixture pH			>10
Temperature resistance	(°C)		-30 to +90
Maximum grain size	(mm)		1,25
Working time	(h)	EN 1015-9	2
Maturation time	(min)		5
Setting time	(min)	EN 196-3	2-3
Compressive strength	(N/mm ²)	EN 1015-11	≥28
Flexural strength	(N/mm ²)	EN 1015-11	≥8
Dry bulk density	(Kg/l)		1,05-1,15
Bulk density of fresh mortar	(Kg/l)		1,90-2,00
Dry bulk density of hardened mortar	(kg/l)	EN 1015-10	1,85-1,95
Strength development time	(days)		15
Consumption	(ml water / 100g)		0,6
Water demand	(ml water / 100g of dry mortar)		21-23
Waterproofing			excellent
Excellent Resistance to humidity and vapors			excellent
Resistance to ageing			excellent

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.