



SALT-RESISTANT, HI-FLOW MASONRY MORTAR, BASED ON NATURAL HYDRAULIC LIME FOR RECONDITIONING AND CONSOLIDATING MASONRY.



## PRODUCT DESCRIPTION

Plasterflow M15 is a free-flowing, cement-free mortar in powder form for reconditioning and consolidating masonry made from natural hydraulic lime, fine natural sand, special additives and micro-fibers with very low emission level of volatile organic compounds. This product is classified G according to EN 998-2 Standards: “Guaranteed performance, general purpose masonry mortar for external use on elements with structural requirements”, class M 15. When mixed with water Plasterflow M15 forms a fluid, volumetrically-stable, salt-resistant mortar which is easy to pour and pump into formworks and structures with large internal gaps and cavities without segregating. Once hardened, the characteristics of the mortar made from Plasterflow M15, such as mechanical strength, modulus of elasticity and porosity, are very similar to those of the mortar made from lime, lime-pozzolan or hydraulic lime originally used in the construction of old buildings. Plasterflow M15 also has properties which make the product resistant to various chemical-physical aggressive phenomena, such as the presence of soluble salts and alkali-aggregate reactions. Besides, the mortar does not induce the formation of efflorescence and does not release soluble salts. Plasterflow M15 is recommended for layers up to 4 cm thick.

## FIELD OF APPLICATION

Reconditioning and consolidating stone, brick, tuff and mixed facing walls where the layer of mortar to be applied and the shape of the structure require the use of free-flowing products.

Mixing free-flowing, salt-resistant, volumetrically stable, fluid, high-strength masonry mortars for filling large internal cracks, gaps and cavities when reconditioning and consolidating structures such as:

- foundations, pillars, vaulted roofs and archways
- rubble masonries
- stone, brick, tuff and mixed masonry in general on existing buildings, including listed buildings of historical or artistic interest.

## LIMITATIONS

- Do not use to make consolidating slurry to inject into structures
- Do not use to make transpirant render
- Do not use to make “reinforced” render
- Do not use to skim render
- Never add additives, cement or other binders
- Do not apply if the temperature is lower than +5°C.

## APPLICATION PROCEDURE

### A) Preparation of the substrate

- Remove all deteriorated and loose concrete to form a solid, rough and strong substrate. Any areas previously repaired and which are not perfectly bonded must also be removed.
- Remove all dust, rust, cement laitance, grease, oil and paint from the concrete and reinforcement rods by sandblasting or hydro-sandblasting.
- Treat reinforcement rods with Ferropri-mer 1K or 2K, according to the procedure given in the Technical Data Sheet of product.
- Saturate the substrate with water.
- Before carrying out repairs, wait until excess water has evaporated.
- Install the frame works.

### B) Preparing the product

Mix Plasterflow M15 in a cement mixer or in the hopper of a screw-type pump with a separate mixer, such as a Putzmeister S 5 or a similar machine. Small amounts of the product may be prepared using an electric drill at low speed with a mixing attachment. After adding around 3 litres of clean water for every 25 kg bag of product in a cement mixer or in the mixing unit of a screw-type pump, slowly add the powdered mortar in a constant flow. Mix for 3 to 4 minutes and then make sure the mix is well blended and even and that there are no lumps. Make sure there are no traces of powdered mortar stuck to the sides or bottom of the mixer.

### C) Applying the product

Pour or pump the product into the structure from one side only in a constant flow to help expel any air from inside the element to be regenerated and to fill all the gaps and cavities. Even though it is not necessary to vibrate the product, make sure all the gaps and cavities are completely filled. To help the mortar flow into the more difficult areas, use wooden laths, round bars or a vibrator. After pouring or pumping the product we recommend curing it very carefully to make sure that the

mixing water does not evaporate too quickly, particularly in hot and/or particularly windy weather, otherwise surface cracks caused by plastic shrinkage may form. In such cases take special care when curing the mortar, especially during the first 36-48 hours, by spraying water on the surface, or with other systems to prevent the mixing water evaporating off too quickly.

## COVERAGE / CONSUMPTION

The consumption is approximately 1.8kg/m<sup>2</sup> at 1 mm thickness.

## PACKAGING

Plasterflow M15 is supplied in:  
– 25 kg paper bags.

## SHELF LIFE-STORAGE

Original sealed bags of this product are guaranteed to be of first quality for 12 months if stored off of the ground in a dry area. High humidity will reduce the shelf life of the bagged product.

## SAFETY INSTRUCTION

Plasterflow M15 is irritant; it contains cement that when in contact with sweat or other body fluid causes irritant alkaline reaction and allergic reactions to those predisposed. It can cause damage to eyes. In case of contact with eyes or skin wash immediately with plenty of water and seek medical attention. It is recommended to use protective gloves and goggles. For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet. PRODUCT FOR PROFESSIONAL USE.

## TECHNICAL DATA

Product identity	
Consistency	powder
Color	white
Type of binder (EN 459-1)	NHL 3.5 and NHL 5 and Eco-Pozzolan
Maximum size of aggregate (EN 1015-1) (mm)	2.5
Bulk density (kg/m <sup>3</sup> )	2,230
Chloride content (EN 1015-17) (%)	< 0.05
Application data (at +23°C and 50% R.H.)	
Consistency of mix	fluid - free-flowing
Bulk density of wet mortar (EN 1015-6) (kg/m <sup>3</sup> )	2,050
Porosity of wet mortar (EN 1015-7) (%)	7
Application temperature range	from +5°C to +35°C
Workability time of wet mortar (EN 1015-9)	approx. 60 mins
Final performances	
Compressive strength (MPa)	20
Flexural strength (MPa)	5
Compressive modulus of elasticity (GPa)	10
Bond strength on concrete (substrate type MC 0.40) according to EN 1766 (MPa)	≥ 1.5
Thermal compatibility measured as bond strength according to EN 1542 (MPa)	≥ 1.5
Capillary absorption (kg/m <sup>2</sup> .h )	≤ 0.1
Impermeability expressed as coefficient of permeability to free water (kg/m <sup>2</sup> .h )	W < 0.1 Class III
Coefficient of permeability to water vapour (m)	15/35
Reaction to fire	A1

### WARNING

Danger. Contains Portland Cement: Chromium VI < 2 ppm within the validity period of the product. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. P261 Avoid breathing dust. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352 IF IN CONTACT WITH YOUR SKIN: Wash with plenty of water/... P305 + P351 + P338 IF IN CONTACT WITH YOUR EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor/...



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