



HIGH-STRENGTH, TRANSPIRANT, NATURAL HYDRAULIC LIMEBASED MORTAR WITH VERY LOW EMISSION LEVEL OF VOLATILE ORGANIC COMPOUNDS FOR GENERAL BUILDING WORK, REINFORCED MASONRY, AND TOUCHING-UP AND PLUMBING WALLS



PRODUCT DESCRIPTION

Masonry Mortar N15 is a ready-mixed, high-strength, powdered transpirant masonry mortar with very low emission level of volatile organic compounds made from natural hydraulic lime NHL 3.5 and NHL 5, reactive inorganic compounds, natural sand and special additives. This product is classified as G according to EN 998-2 Standards: “Guaranteed-performance, general-purpose masonry mortar for external use on elements with structural requirements” Class M10. Once Masonry Mortar N15 has been mixed with water in a cement mixer or other suitable container, it forms a masonry mortar with a plastic-thixotropic consistency which is easy to apply by trowel. Thanks to its special composition Masonry Mortar N15 has almost no hygrometric shrinkage, which drastically reduces the risk of cracks forming in the mortar. It also has properties that make it resistant to a wide range of aggressive chemical and physical phenomena.

FIELD OF APPLICATION

- Building new load-bearing and buffer walls or rebuilding existing walls, including walls in listed buildings.
- Pointing between rows of stone, brick and tuff on natural-finish masonry.
- Making bedding and reinforced joints using rebar or composites.
- Building facing walls with high performance masonry mortar in compliance with the standards applied in seismic zones.
- Touching-up and plumbing facing walls with gaps and/or uneven surfaces.

LIMITATIONS

- Do not use for pouring into formwork
- Do not use to make consolidating slurry for injection into facing walls
- Do not use to make high-strength or reinforced 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 traces of loose or crumbling material, dust, mould and any other material or substance that could affect the adhesion of Masonry Mortar N15 with either hand or power tools until the substrate is clean, sound and compact. Remove any weak bedding mortar between the masonry blocks. Clean the masonry with low-pressure water jets to remove any efflorescence or soluble salts present on the surface. Repeat this operation several times if necessary. Before applying Masonry Mortar N15, the substrate must be saturated to prevent it absorbing water from the mortar and affecting its final performance characteristics. Excess water must be left to evaporate off, so that the masonry is saturated and the surface is dry. If the substrate cannot be saturated with water, we recommend that it is dampened so that Masonry Mortar N15 adheres correctly.

B) Preparing the product

Mix Masonry Mortar N15 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

Apply Masonry Mortar N15 with a trowel. When touching-up or plumbing walls or building facing walls and buffer walls, form an installation bed and then lay the construction elements (stone, bricks, blocks and tuff), pressing down slightly so that they are in the correct position. Remove excess mortar with a trowel. If the mortar is used for pointing between blocks or bricks, apply a layer of mortar at least 5 mm thick and press it down slightly to encourage the adhesion. On natural finish walls, remove any excess mortar from between the bricks or blocks and pass a damp sponge over the mortar in the joints.

COVERAGE / CONSUMPTION

The consumption is approximately 1.8kg/m² at 1 mm thickness.

PACKAGING

Masonry Mortar N15 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

Masonry Mortar N15 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
Colour	white
Type of binder (EN 459-1)	NHL 3.5 and NHL 5 and Eco-Pozzolan
Maximum size of aggregate (EN 1015-1) (mm)	1,5
Bulk density (kg/m ³)	1.500
Chloride content (EN 1015-17) (%)	< 0.05
Application data (at +23°C and 50% R.H.)	
Consistency of mix	free-flowing
Bulk density of wet mortar (EN 1015-6) (kg/m ³)	1.800
Porosity of wet mortar (EN 1015-7) (%)	25
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)	12
Bond strength on concrete according to EN 1766 (MPa)	≥ 0,3
Capillary absorption (kg/m ² .h)	Category W1
Thermal conductivity (λ) (W/m.K)	0.3
Coefficient of permeability to water vapour (m)	15
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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