

SAN MARCO
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San Marco Group Spa

www.san-marco.com

SAN MARCO GROUP
Via Alta 10/A - 30020
Marcon (Venezia), Italia

info@sanmarcogroup.com
+39 041 4569322
www.sanmarcogroup.com

Neptunus Intonaco Deumidificante

RESTORATIVE MORTAR



CODE 9480170

NEPTUNUS INTONACO DEUMIDIFICANTE - V.2024-09-24

DESCRIPTION

This is a ready-mixed mortar which, when mixed with water, creates a dehumidifying mortar for the restoration of surfaces affected by rising damp or the formation of saltpetre earth.

The high breathability of water vapour, together with its strong water repellence, render NEPTUNUS INTONACO DEUMIDIFICANTE particularly suited to working:

- on socles in buildings with the aim of preventing rising damp and efflorescence;
- indoors for the dehumidification of rooms that are particularly damp (cellars, basements) or subject to condensation;
- on facades subject to strong winds and freezing and thawing;
- as a complementary treatment to damp-proof courses.

INSTRUCTIONS FOR USE

Surfaces upon which NEPTUNUS INTONACO DEUMIDIFICANTE may be used are all walls for any nature, whether mineral or cement-based, indoors and outdoors, as long as all old mortar has been removed.

TECHNICAL SPECIFICATIONS

- Type of Binder: Portland cement, Aerial lime with specially selected inert additives.
- Density of fresh mortar: ca 1.30 kg/l
- Appearance: grey powder
- pH of mixture: >11
- Air content: about 31%
- Minimum thickness: 2 cm
- Maximum size of inert substances: 3mm
- * Classification per UNI EN 998-1: R
- * Flame reaction EN13501-1: Class A1
- * Compression resistance EN 1015-11: CS II
- * Water absorption EN 1015-18: >0,3 Kg/m² after 24 hours
- * Water penetration EN 1015-18: <5 mm

- * Adhesion EN 1015-12: ≥ 0.3 N/mm² (FP) B
- * Steam permeability coefficient EN 1015-19: $\mu \leq 15$
- * Thermal conductivity ($\lambda_{10, dry}$) EN 1745:2002: 0.5 W/m K

Desiccation depends greatly on the conditions of environmental temperature and humidity of the support; in any case wait at least 28 days for complete ageing. If necessary, carry out a (hygrometric check) of the plaster.

PREPARING THE SURFACE

Walls:

- The wall must be stripped of all mortar.
- Remove the layer of old mortar to about 50 cms above the layer of evident damp.
- Eliminate any areas that are crumbling away and/or salt incrustations by brushing and washing with water, preferably using a pressurised-water cleaner.
- Once the surface is dry, apply a coat of NEPTUNUS ANTISALE anti-salt sealant, code 0700240, following the instructions on the relative technical sheet.
- Wait 24 hours and then apply the "mortar fixative jet" (following the instructions).
- Subsequently, finish off the covering by applying the NEPTUNUS INTONACO DI FINITURA 9480180.

APPLICATION INSTRUCTIONS

Conditions of the surface and surroundings:

Air temperature: Min. +5 °C / Max. +35 °C.

Relative humidity of the air: <75%.

Temperature of the surface to be treated: Min. +5 °C / Max. +35 °C.

The product may be applied roughly with a trowel.

- Use all the mortar, before preparing some of new.
- Don't apply on gypsum, seal coat, bituminous or waterproof sheathing, and on non absorbent cohesionless surfaces.
- In hot season, protect the plaster to avoid evaporation, and dampen the surface in the first days or in case of wind.

Preparation:

1st phase: Execution of the "fixative jet":

Mix the NEPTUNUS INTONACO DEUMIDIFICANTE in a mechanical mixer for about a minute together with 20% in percentage terms of NEPTUNUS ADDITIVO DI AGGANCIO sealant additive, code 0700250 (5 litres for a sack of 25 kg) adding 1 litre of water. Apply the mixture, which should be very liquid and uniform in jets on the wall, without covering it altogether (cover a maximum of 60% of the overall surface). In this phase, the coverage of the mortar is about 7-8 sq.m. with a sack of 25 kg of NEPTUNUS INTONACO DEUMIDIFICANTE.

2nd phase: Execution of the diffusive mortar:

After at least one hour from the "fixative jet", apply the NEPTUNUS INTONACO DEUMIDIFICANTE mixed with 20% water (5 litres of water per 25 kg of mortar).

Preparation: pour 2/3 of the overall quantity of water in a container and add the product with a regular flow, mixing continuously to avoid the formation of lumps. Stir until a uniform blend has been made and add the remaining water.

Mixing times: these may vary according to temperature (low temperatures require less time). At 20 °C, in a normal (pear-shaped) cement mixer, about 8-10 mins.

- The blend obtained must be light and cellular.

If it is left to rest for more than 15 minutes, it must be agitated again before use. If necessary, add more water.

Working life of the blend: at least 3 hours.

- Minimum thickness: 2 cm. For great thickness add brick flakes in the mix.

- When a smooth finish is required, apply a smoothly finished layer or NEPTUNUS INTONACO DI FINITURA fine-grain restorative mortar, code 9480180, after at least 24 hours have passed.
- All tools should be cleaned using water immediately after use.
- Indicative coverage: 25-26 kg/ sq.m. with a thickness of 2 cm after the product has dried.
- Drying times depend greatly upon the temperature and humidity in the air and of the surface.
- The surface can then be painted with siloxanic, lime-base or silicate-base paints after at least 28 days.
- In order to achieve the maximum of performance from the dehumidifying system outdoors, use products with high vapour permeability and low water absorption: products from the NEPTUNUS line.
- Indoor, can be apply silicate paints as MARCOSIL PITTURA LISCIA series 926 and MARCOSIL DOMUS series 939 too.

TINTING | The product is available in grey.

STORAGE | Maximum temperature for storage stability: +30 °C
Minimum temperature for storage stability: +5 °C
The product should be preferably used within 1 year from date of manufacture when stored in original unopened containers and in appropriate temperature conditions.

SAFETY RULES | It does not fall within the scope of Legislative Decree 161/2006 (Dir. 2004/42/EC)

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May irritate the respiratory tract.

Use the product in accordance with current safety and hygiene regulations; after use, do not disperse the pots in the environment; allow the residues to dry well and treat them as special waste. Do not empty into drains, watercourses or onto the ground.

For more information, please consult the safety data sheet.

SPECIFICATION ITEM | Applications on previously prepared surfaces of NEPTUNUS INTONACO DEUMIDIFICANTE, code 9480170, based on a modified hydraulic binder with special, inert additives, which is classified R per EN 998-1, for the restoration of surfaces with problems of damp, with thickness of at least 2 cm and consumption of 25-26 kg/sq.m.
Supply and application of the material € per sq.m.