



# CALCEPURA

La tradizione della calce.

## MASSETTO

NHL 3.5 natural hydraulic lime line  
CT-C20-F5

*CALCEPURA MASSETTO - ready-to-use traditional screed with reduced shrinkage, based on natural hydraulic lime (nhl 3.5), selected calcium carbonates. Cr(IV)-free.*

*Also applicable by machine, to be mixed with only clean water until a paste with the characteristics of moist earth is obtained.*

**COMPLIES WITH THE UNI-EN13813 STANDARD.**

### WARNINGS

Application temperature +5°C ÷ +30°C. Ready-to-use product: add water in the indicated amount and mix for up to 2 minutes. Do not apply on frozen surfaces and, in the process of thawing, or with risk of frost in the following 24 hours. Avoid applying the product in strong winds and in full sun. Protect the treated surface from too rapid drying. Do not mix with binders and/or aggregates. In casting joints, always insert an electro-welded mesh  $\varnothing$  5 for at least 10 cm to ensure the monolithicity of the manufactured product. Not suitable for exterior screeds that are not waterproofed or exposed to moisture.

### TECHNICAL DATA

Class UNI EN 13813	CT-C20-F5
Colour	cream
Particle size	< 3,0 mm
Powder density mass	1,55 Ton/m
Mixing water (mixer or pump)	6 / 8%
Mixing water (tumbler mixer)	6,5 / 8,5%
Application temperature	+5°C / +30°C
Fire reaction	euroclass A1
Mechanical resistance to compression (28dd)	$\geq 20,0$ N/mm <sup>2</sup>
Mechanical resistance to bending (28dd)	$\geq 5,0$ N/mm <sup>2</sup>
Dough life time (Pot life)	90÷120 mins
Dough resting time	0 mins
Yield per pack	1,55 m <sup>2</sup> per 1 cm thickness
Consumption	15-16 Kg/ m <sup>2</sup> per 1 cm thickness
Transitability	12 hours
Storage	if properly stored in a sheltered, dry place in its original container, the product maintains its properties for 8 months.
Supply	25 kg bags / 64 bags pallet



## PREPARATION OF THE SUBSTRATE

CALCEPURA MASSETTO should be applied to clean and consistent homogeneous surfaces that have a good roughness to the touch.

### CONSTRUCTION TYPES

1) Anchored screed minimum thickness of 3.0 cm:

Ensure that the substrate is dry R.H. < 2.0%.

Fix along the pillars and exterior walls a strip of compressible material that is between 4 and 8 mm thick

Prepare the anchoring slurry by mixing:

1 part by volume of latex,

1 part by volume of water,

2 parts by volume of cement (CALCEPURA LEGANTE).

Use a paintbrush or broom for spreading by laying the screed fresh on fresh, not exceeding 50 minutes between applying the grout and the screed.

2) Floating screed thickness greater than 3.5 cm:

Make sure the substrate is dry R.H. < 2.0%.

Carefully lay a waterproof sheet over the substrate (polyethylene, PVC, tar board, etc.).

Overlap the sheets by at least 20 cm.

Fix along the perimeter walls and pillars a strip of compressible material with a thickness between 4 and 8 mm.

In both cases an electrowelded mesh can be inserted into the screed, this will further decrease shrinkage and increase its static performance.

Use, in the case, a maximum 5 mm diameter mesh 20 x 20, taking care to bury it by holding it up so that it is in the lower third of the thickness to be made. If there are pipes or ducts, a fine hexagonal mesh must be placed between the waterproofing sheet and the screed, making sure that the thickness of the screed does not fall below 2 cm.

After laying, ventilate the rooms to eliminate any condensation while still avoiding accidental wetting.

## PREPARATION OF THE PRODUCT

The screed can be mixed by using:

- tumbler concrete mixer
- continuous kneading machine
- pressure pump.

The operating sequences are given below:

### CONSTRUCTION SITE TUMBLER CONCRETE MIXER

Considering that 8 bags of screed are generally mixed in the concrete mixer, put about 1.8÷1.9 L of clean water per 25 kg bag into the mixer, so 14.5÷15.5 L total. Start. Mix for about 1 min 6 bags. Then add the remaining amount to optimum consistency and allow to knead until completely wet, however, no more than 1 min. Drain the product, also it is good practice not to let the mixer run with material inside.

### CONTINUOUS KNEADING MACHINE

Load the machine. Start. Adjust the mixer's flow meter to optimal consistency, removing the material used for adjustment. After checking the condition of the machine you must: Load the bucket with 8-10 bags. Start. Load the mixing chamber by adding water until optimal consistency (approx. 17-18 liters per 10 25kg bags). Allow to mix for about 1 min. Unload.

### SCREED FINISHING

CALCEPURA MASSETTO can be finished either with a rotary disc machine or with a fratazzo. In the case of machine finishing, it is necessary to slightly wet the surface before the material sets (max 20÷30 gr/sqm), so as to have an excellent final result.