



## ISOLPLANO RASO 50 PLA12

CT  
C20  
F6

CE  
EN 13813

### ITEM SPECIFICATIONS

High performance, quartz based leveling mortar. Quick use time, fiber-reinforced, used to smooth and level low-thick concrete flooring, based on cement, quartz, resins and special additives, class CT C20 F6.

### THE PRODUCT



FOR FLOOR  
& WALL



PACKS  
OF 25 KG



FOR INDOOR  
& OUTDOOR



PACKS  
OF 20 KG



CEMENT BASED



MECHANICAL  
MIXING



THIXOTROPIC  
MORTAR



TO BE APPLIED  
WITH PLASTIC  
TROWEL



TO BE APPLIED  
AT TEMPERATURE  
FROM 5°C TO 35°C



USE PERSONAL  
PROTECTIVE  
EQUIPMENT



FIBER-REINFORCED



SLIGHTLY  
HYDROPHOBIC

\* available on request

### TECHNICAL CHARACTERISTICS

#### VERSATILITY

ISOLPLANO RASO 50 is a cementitious basecoat that allows restoring, levelling and smoothing of old and new floorings in easy and fast way. Its effortless laying and its fast drying make it the ideal solution to realize preparation substrates for self-leveling, NANOSTUCCO wall finishing, tiles, parquet, linoleum, etc.

#### MECHANICAL RESISTANCE AND RESTORING

ISOLPLANO RASO 50 is a fiber-reinforced smoothing mortar with no shrinkage and with high mechanical resistance to compression and flexure, wear resistant, with high performance within 24 hours.

#### HYDROPHOBICITY

ISOLPLANO RASO 50 is slightly hydrophobic. This makes it ideal substrate for self-leveling and micro-cements, where usually, the substrate absorbance compromises workability. Its natural water-repellency improves so workability, efficiency and performance of cementitious adhesives.

#### WORKABILITY

ISOLPLANO RASO 50 has a soft and creamy texture, which gives an easy workability and allows application combined with fiberglass mesh.

#### LOW THICKNESS

ISOLPLANO RASO 50 can be applied in very low thickness until 1-2 mm and allows to finish surfaces even in case of problems of door sill heights.

- thixotropic
- good price/performance ratio
- fiber-reinforced
- for industrial flooring
- for indoor and outdoor applications
- for warehouses with medium-heavy traffic
- for walls
- for thickness between 1 and 25 mm

## AREAS OF APPLICATION

### INTERVENTIONS

- Adjustment of irregular and not planar, cementitious screeds, used before application of floor finishing.
- Smoothing of irregular walls before finishing application.

### SUBSTRATE

- Excellent on cementitious and ready screeds, on precast or cast in situ concrete, on aerated concrete and heating floors.
- Excellent on cementitious plasters, concrete blocks masonry, perforated bricks, aerated concrete.

It must be used only and exclusively on cementitious substrates, consistent, mature and free from dust, oils, grease or parts not properly anchored to the substrate.

## DO NOT USE

- on glazed tiles, resin or cement-based marble chips, stoneware, plasterboards, on epoxy or flexible primers, on fiber cement siding, metallic surfaces
- on rubber, PVC, wood, linoleum, insulating films, non cementitious waterproof membranes
- with natural stone subject to movement and to dampness presence, substrates subject to continuous rising damp
- on gypsum and plasterboard

## LAYING

The fund must be consistent, mature and free from dust, oil, grease or parts not properly anchored to the substrate.

Laying the mortar by metallic trowel, well smooth the product to obtain a homogeneous cover, spreading well to regularize water absorption and improve substrate adhesion. After a few minutes, it is possible to proceed to the smoothing by plastering trowel.

In case of high temperatures, strong wind or direct sunlight, it is suggested to dampen the realized surface, starting when the material has started setting, until a few days later, to avoid a rapid drying that should cause cracking due to hygrometric shrinkage.



## COMPLY WITH THE STANDARD

EN 13813 CT C20 F6

## INDICATIVE DATA OF THE PRODUCT

Color/consistency: grey/powder

Solid content %: 100

Bulk density kg/l: approx. 1,45

Hazard classification according to 1999/45/EC: irritant  
important to carefully read the instructions contained in this form, on pack and on Safety Data Sheet

Storage: 12 months in dry and ventilated environment

Packaging: 25 kg

Custom code: 3824 50 90

## VALUES OF THE FINAL PERFORMANCE

Adhesion on concrete after 28 days (EN 13892-8)  $\geq 1$  N/mm<sup>2</sup>

Compression strength after 28 days (EN 13892-2):  $\geq 20$  N/mm<sup>2</sup>

Flexural strength after 28 days (EN 13892-2):  $\geq 6$  N/mm<sup>2</sup>

Surface hardness after 28 days (EN 13892-6):  $\geq 30$  N/mm<sup>2</sup>

Operating temperature: -30°C/+90°C

Resistance to solvents: excellent

Resistance to oils: excellent

Resistance to alkalis: excellent

Resistance to acid: poor

## VALUES AND APPLICATIVE INFORMATION (AT 23°C AND 50% R.H.)

Water used for mixing: add approx. 24% of water on a part of ISOLPLANO RASO 50

Pot life: 20 minutes

Consumption: 1,5 kg/m<sup>2</sup> per mm of thickness

Complementary products: EMULSIONMIX - PAVIMIX - ISOLMIX - ISOLCOLL - NANOSTUCCO

Application temperature: + 5°C /+ 35°C

Setting time:  $\approx$  60 minutes

Minimum thickness: 1 mm

Maximum thickness: 25 mm

Set to light foot traffic 2 hours

Ready to use 4 days

PH of the mixture  $\approx$  12

## WARNING

The requirements and the guidelines herein are to be considered purely indicative and corresponding to our everyday best experience. We therefore recommend carrying out the tests in order to verify that the product corresponds to what is actually required and expected. We, as producers, do not assume any responsibility about how, when and where our products are applied except for the constant quality of the material.