

BENFERLEVEL MAX



SELF-LEVELLING RAPID SETTING AND HARDENING REINFORCED CONCRETE FOR RENDERING HORIZONTAL SUB-BASES. FROM 3 TO 30 MM DEPTH EACH COAT. ELEVATED PUMPABILITY. PROFESSIONAL USE. FOR INTERIORS.

TECHNICAL FEATURES:

Benferlevel Max is a special powder product composed of highly resistant cements, aggregates and selected additives, which provide a special armor of synthetic fibers. It is suitable for extremely easy rendering of horizontal sub-bases up to 30 mm in depth "each coat", and can be used for ceramic floors or similar materials after only 6* hours of setting and with a humidity level below 2% after only 24* hours.



FIELDS OF APPLICATION:

Rendering of concrete screed of old or new construction from 3 to 30 millimeters depth each coat, in civil and industrial environments, even those subject to intense traffic.

INSTRUCTIONS FOR USE AND CONTRAINDICATIONS:

The sub-bases must be mounted and rigid, and invulnerable to elastic oscillations and vibrations of the structure. They must also have completed their shrinkage phase and they must be perfectly dry, clean and free of oils.

For old floors with a discontinuous absorption, such as anhydrite screed, be careful to first apply a coat of **Benferprim**, while on glazed tiles or those not very absorbent, such as old vinyl and wooden floors, proceed with mechanical roughening or apply a preventative coat of **Starprim**. Avoid the use of sub-bases subject to humidity seeping.

Always provide for the setting of a perimeter joint in compressible material with a depth of at least 8-10 millimeters to be positioned in correspondence to possible columns.

It is necessary to insert the dilation joints in correspondence to possible sub-base joints to avoid





the risk of breakage in the finished floor.

The mixture contents (5,5 liters of water for each 25 kg of product) must be strictly adhered to, as an excess of water would surely cause more shrinkage with the resulting superficial cracks, in addition to insecure anchoring at the sub-base. After 6* hours it is possible to proceed with the laying of ceramic tiles or similar materials, as long as they are humidity stable, while for floors in wood, rubber or PVC it is indispensable to preventatively control (using a carbide hygrometer) that the humidity level in the sub-base is less than 2% (normally after 24* hours).

Measurement of the residual humidity level in **Benferlevel Max** sub-base must be performed with a carbide hygrometer in several different sample areas of the sub-base with a reading after at least 2 minutes from the breaking of the vial. Normal electrical hygrometers do not always provide reliable results in these cases.

The electric hygrometer (very suitable for measuring humidity levels in wooden floors) measures humidity in screed by its electric conductivity, and is therefore influenced by many different parameters, such as

the presence of metallic netting, tubes, high saline contents, special additives, hygroscopic materials and water that has been chemically semi-transformed into stable salts, which are not harmful for installation.

The same water is also detected by the carbide hygrometer, but only following a waiting period of more than 2 minutes, such as 30 minutes, for example.

Always apply a layer of **Benferlevel Max** of at least 3 mm.

PREPARATION OF THE MIXTURE:

Mix **Benferlevel Max** with 22% clean water (5,5 liters of water for each sack of powder) using an electric mixer at low speed until obtaining a smooth mortar without any lumps. Let stand for 5 minutes making certain to control that no water rises to the top; if this is the case, add more powder and mix again.

The mixture contents (5,5 liters of water for each 25 kg of product) must be strictly adhered to, as an excess of water would surely cause more shrinkage with the resulting superficial cracks, in addition to

insecure anchoring at the sub-base. A quantity of water that is over the recommended dosage would cause yellowish streaks on the surface. The product must be utilized within 20 minutes after its preparation.

APPLICATION:

Pour the product into the sub-base and spread it using a smooth spatula in a uniform manner, or use a plaster pump, making certain to then pass over the surface with a bubble-breaker roller on the entire treated area. Rendering with a depth of more than 30 mm is possible with several applications after the first as soon as it has reached a sufficient consistency. Avoid setting in places with strong air currents as much as possible, as well as in places with possible freezing temperatures.

CONSUMPTION AND PACKAGES:

1,6 kg/m² for each millimeter of depth.

Benferlevel Max is packaged in poly-coated paper of 25 kg and in pallets of 1,500 kg.

CONSERVATION:

In its original closed package in a dry cool place.

DURATION:

12 months from the date listed on the package; in conformity with the directive 2003/53/CEE informing that this time expiration regards the efficiency of the reducing agent in respect to hydro-soluble Chrome VI.





PRODUCT TECHNICAL DATA

CONSISTENCY	POWDER
COLOUR	GREY
CONSERVATION	IN THE ORIGINAL CLOSED PACKAGE, IN A COOL DRY PLACE
DURATION:	12 MONTHS FROM THE DATE LISTED ON THE PACKAGE; IN CONFORMITY WITH THE DIRECTIVE EEC 2003/53 INFORMING THAT THIS TIME EXPIRATION REGARDS THE EFFICIENCY OF THE REDUCING AGENT IN RESPECT TO HYDRO-SOLUBLE CHROME VI.
DANGER OF HARM	NO POSSIBLE IRRITATION OF THE EYES AND SKIN FOR CONTACT DUE TO THE CEMENT CONTENT. ADEQUATE PROTECTION IS RECCOMENDED.
FLAMMABILITY	NO
MIXING RATIO	22 PARTS WATER WITH 100 PARTS POWDER BY WEIGHT
LIQUID MIXTURE	5,5 LITERS PER 25 KG SACK OF POWDER
MAXIMUM APPLICATION DEPTH	FROM 3 TO 30 MM
COVERAGE	1,6 Kg/m ² PER MM OF THICKNESS
MIX CONSISTENCY	FLUID
APPLICATION TEMPERATURE	FROM + 5°C TO + 35°C
MIXTURE POT LIFE*	30 MINUTES
PRACTICABILITY ON DRY SUPPORTS*	APPROXIMATELY 3 HOURS

FINAL PERFORMANCES

DAMP RESISTANCE	LIMITED
COMPRESSIVE STRENGTH AFTER 24 HOURS	20 N/mm ²
COMPRESSIVE STRENGTH AFTER 7 DAYS	27 N/mm ²
COMPRESSIVE STRENGTH AFTER 28 DAYS	35 N/mm ²
FLEXURAL STRENGTH AFTER 24 HOURS	3,5 N/mm ²
FLEXURAL STRENGTH AFTER 7 DAYS	5,0 N/mm ²
FLEXURAL STRENGTH AFTER 28 DAYS	8,0 N/mm ²
RESISTANCE TO TEMPERATURE	FROM - 30°C TO + 90°C
RESISTANCE TO ABRASION AT 28 DAYS FROM SETTING	0,7 GRAMS
BRINELL HARDNESS AT 28 DAYS FROM SETTING	75 N/mm ²

* data collected at 23°C and 50% of r.h.

PLEASE NOTE: The data and information contained herein are dictated by our best results, and are purely indicative and must be verified by the user of the product who assumes complete responsibility for its use.