

Three component epoxy-cementitious moisture barrier for floors.

CHARACTERISTICS:

Three component epoxy-cementitious system for the creation of a moisture barrier for floors with high humidity level or subject rising damp. **CREATIVO® BARRIERA** is composed of a two-component epoxy resin (**CREATIVO® BARRIERA component A + component B**) and a dry powder mixture of hydraulic binders and additives (**CREATIVO® BARRIERA component C**). **CREATIVO® BARRIERA** has excellent adhesion even on damp substrates, is quick to cure and achieve its mechanical performance, does not shrink, has low odor emission and is easy to apply.

USES:

CREATIVO® BARRIERA is used for the waterproofing of floors with presence of moisture before the application of **CREATIVO®** systems and to balance the absorption rate on ceramic floors with wide joints.

PREPARATION AND APPLICATION:

Surface must be clean, compact and sound, exempt from oil, grease, dust, waxes, silicone, sealers or any other element that might compromise adhesion of the system. Old filming paints must be removed. Do not apply in the presence of percolating or stagnating water. On floors with ceramic tiles or other coatings, perform a shot blasting and subsequently remove all dust. When applying on new cement screed, make sure that the screed is fully cured. On old non-solid screeds, consolidate the substrate with **CREATIVO® PRIMER**. On exterior non-solid, dusty substrates, consolidate the substrate with **RESINPOL**. After its application, evaluate condition of the substrate before proceeding. Missing portions, holes, cracks need to be repaired with specific mortars and then wait for full curing of the treated area, which will vary according to the thickness applied.

Carefully mix **component A** and **component B** with low speed drill, trying to avoid air absorption. Add **component C** and mix until an homogeneous mixture is achieved. The mixture must be applied within 20 minutes in warm weathers and 40 minutes in colder weathers. Do not add any water once the mixture is starting to set. Apply the mixture by stainless steel trowel in 2 coats. Drying time in between coats is 24 - 48 hours. In case more time has passed, it is necessary to sand the surface. It is also possible to apply the mixture in one coat by toothed trowel and then level it by steel trowel. In order to obtain an effective vapour barrier it is necessary to apply a minimum thickness of 2 mm with consumption rate of 1.8 kg/m² for mm applied. On wide surfaces we recommend the application of an 80-90 g/m² fiberglass mesh in the first coat of **CREATIVO® BARRIERA**. After 24 h it is possible to start the application of **CREATIVO®** system by applying only 1 coat of **CREATIVO® FONDO** instead of the standard 2 coats.

IMPORTANT NOTES:

- Before application, make sure that the substrate is perfectly cured, dry and adherent to the substrate. Substrate must be exempt from dirt, oil, mould, fungi, bacteria, salts or any other element that might compromise adhesion or the successful outcome of the job.
- Do not apply in the presence of percolating or stagnating water.
- Keep the product away from frost (minimum +5°C).
- Store in a cool, dry place, away from the sun.
- In this conditions, and in its original packing, component C shelf-life is 12 month, component A and B is 24 months.
- Use the product at room and substrate temperature between + 5 ° C and + 35 ° C, with relative humidity lower than 75%.
- Avoid drying at room and substrate temperature lower than +5°C.
- Do not apply with the risk of imminent rain, in direct sunlight, in the presence of strong wind, or with persistent fog.
- Protect from driving rain for as long as necessary for the full curing of the product.
- Given the complexity of cases of intervention, for any enquiry kindly contact our Technical Department.
- Handle with care: avoid contact with skin and eyes by using protecting gloves and goggles.

TECHNICAL DATA:

MIX RATIO	Component A 1.3 kg Component B 4.7 kg Component C 12 kg
POT LIFE	20-40 min (depending on ambient temperature). > 3Mpa
ADHESION TO CONCRETE	@1 day: 40Mpa
COMPRESSIVE STRENGTH	@7 day: 50Mpa
PACKAGES	Component A 1.3 kg Component B 4.7 kg Component C 12 kg
CONSUMPTION	1.8 Kg (A+B+C) per m ² per mm of thickness
LIQUID WATER PERMEABILITY (UNI EN 1062-3:2008)	< 0,1 kg/m ² ·h ^{0,5}
WATER VAPOUR PERMEABILITY (UNI EN ISO 7783-2:2001)	Class W3 = low permeability Sd<5mm

The technical specifications and application methods recommended herein are based on our current knowledge and experience and do not represent any form of guarantee of the final results obtainable with the product. It is the customer's responsibility to check that this data sheet is still effective and has not been replaced with a more recent version, and that the product is suitable for the intended use.