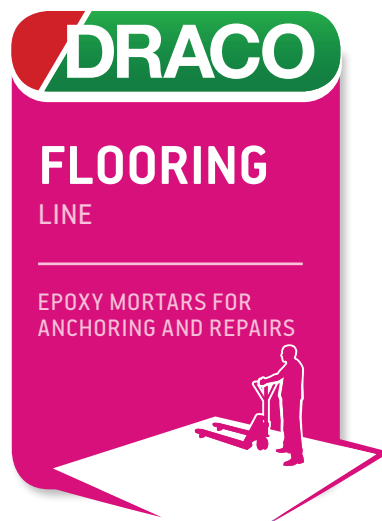


# EPOBETON C

POURABLE TWO-COMPONENT EPOXY MORTAR FOR REPAIRS, SEALING RIGID JOINTS, CRACKS, AND ANCHORING

*Layer thickness from 0 to 5 mm*



**EPOBETON C** is a solvent-free, self-levelling epoxy mortar consisting of epoxy resins, special admixtures and selected aggregates of various grain size. It is used to restore concrete floors and create rigid joints and high-strength anchoring. **EPOBETON C** is available in different versions depending on the thickness required. It is widely used in the repair of floorings and creation of joints, fastening, structural filling and precision anchoring of elements exposed to stresses and dynamic loads. **EPOBETON C** can be easily applied by pouring creating layers up to 5 mm thick.

## BENEFITS

**EPOBETON C** is a two-component epoxy mortar specifically designed for repairing floors and carry out filling and anchoring interventions both indoors and outdoors. Specific product features:

- ✓ **HIGH BOND STRENGTH:** **EPOBETON C** is shrinkage-free, and it is specifically designed to ensure a strong adhesion to the substrate so as to increase the flooring's life span.
- ✓ **HIGH MECHANICAL STRENGTH:** **EPOBETON C** exhibits high mechanical strength and resistance to friction and abrasion, which is ideal for the repair and anchoring of structures exposed to stresses and impacts both indoors and outdoors.
- ✓ **EXCELLENT CHEMICAL RESISTANCE:** **EPOBETON C** effectively withstands industrial environments and the attack of weathering and aggressive chemicals agents.
- ✓ **NON-TOXIC FORMULA:** **EPOBETON C** is solvent-free, it may also be applied on floorings during use and indoors as it is safe for the environment and ensures safe working conditions for operators.
- ✓ **EASY TO APPLY:** **EPOBETON C** is easy to apply, it has a good workability and strength, it is ideal for industrial flooring maintenance. An anti-slip finishing can be obtained through quartz sand sprinkle.

**EPOBETON C** is available in white; any other colours (grey, red, tobacco) may be obtained by adding, during the mixing stage, the pre-measured packages containing the suitable pigment.



### AVAILABLE VERSIONS:

**EPOBETON C** for thickness up to 5 mm

**EPOBETON C3** for thicknesses from 5 to 10 mm

**EPOBETON C4** for thicknesses from 10 to 20 mm

**EPOBETON C5** for thicknesses from 20 to 60 mm

## AREAS OF APPLICATION

**EPOBETON C** is a self-levelling epoxy mortar which can be easily applied by pouring. It is ideal for:

- ✓ anchoring support slabs of bridges and structures and grouting of cables;
- ✓ general repairs of floorings (thresholds, levelling, etc.) even in areas exposed to heavy traffic;
- ✓ repairing high resistance construction joints on industrial floorings;
- ✓ filling rigid joints and sections;
- ✓ precision anchoring of rails or other elements subject to heavy stress;
- ✓ creating high resistance industrial floor joints.

## SUBSTRATES PREPARATION

Surfaces shall be perfectly cleaned and free of oils, efflorescences, dust, loose and crumbling parts which might affect proper adhesion. Slight humidity is tolerated while water stagnation must be removed.

In case of application at low temperatures, the application area must be isolated and protected with movable coverings (please contact the Technical Service of DRACO ITALIANA SPA);

Cut vertically to obtain a clear and linear perimeter of the areas to be repaired; in case of application of a thick layer of **EPOBETON C**, secure a suitable reinforcement wire mesh to the substrate using concrete-specific nails or steel bars fixed with epoxy adhesive in suitable holes in the floor.

## COMPONENTS PREPARATION

Mix the contents of the pails before use. Pour component B and component A into a suitable container and mix at low speed with a mixer for at least 3-4 minutes till getting a well-blended and free of lumps and air bubbles mix. Do not use partial quantities: a wrong mixing ratio could cause damage during the hardening process.

## HOW TO USE

- ▶ Apply **EPOBETON C** by pouring immediately after mixing and provide, if necessary, a formwork with inlet hopper and outlet to limit the jet.
- ▶ In order to avoid that **EPOBETON C** adheres to the walls of the hopper, apply a silicone release agent or a polyethylene sheet;
- ▶ in order to realise horizontal grouting or filling of cracks and cavities, confine the mortar along the entire perimeter of the formwork taking care to seal the formwork cracks with cement or other material. Pour the product taking care to slightly vibrate to facilitate deaeration;
- ▶ on horizontal surfaces, spreading **EPOBETON C** is easier if you use a notched trowel; the spiked roller allows to remove any air bubble incorporated during mixing;
- ▶ in order to facilitate air removal, insert an iron wire inside the poured section, then extract it slowly and repeat several times;
- ▶ On particularly critical and/or inconsistent supports, it is possible to preliminarily apply PRIMER E as an adhesion promoter.

## WARNINGS

- ▶ Use the specific DILUENTE ECO to clean tools; once **EPOBETON C** has hardened, it can only be removed by mechanical means.
- ▶ For thicker sections it is recommended to carry out several pourings, waiting at least 4 hours between each application.

## PACKAGING AND STORAGE

**EPOBETON C** is available in:

10 kg pail + 2.1 kg pail = (A+B) 12.1 kg

If the product is stored properly in its original packaging, indoors in a dry location, at a temperature of not less than +10°C, it maintains its original features for one year.



## PRODUCT FEATURES

APPEARANCE	Comp. A: liquid Comp. B: liquid
COLOUR	Comp. A: white Comp. B: clear, straw yellow (grey, red, tobacco by adding pre-measured pigment)
PYCNOMETER DENSITY - EN ISO 2811	Comp. A: - 1.06 g/cm <sup>3</sup> Comp. B: - 0.92 g/cm <sup>3</sup>
PACKAGING	10 kg pail (A) + 2.1 kg pail (B)
STORAGE	12 months

## APPLICATION DATA - EPOBETON C

MIXING RATIO	A : B = 10 : 2.1
CONSISTENCY OF MIX	Fluid
COLOUR OF MIX	Light grey (grey, red, tobacco by adding pre-measured pigment)
APPARENT VOLUME MASS HARDENED PRISMS -UNI EN 12190	2.100 kg/m <sup>3</sup>
CHLORIDE CONTENT OF FRESH MORTAR - UNI EN 1015-17	0.01% by weight
WORKABILITY AT THE FLOW TABLE TEST - UNI EN 13395-1	280 mm
APPLICATION TEMPERATURE RANGE	from +5°C to 35°C
POT LIFE - UNI EN ISO 9514	approx. 40 min
TOUCH DRY	2 hours at 20°C 4 hours at 10°C
ACCESSIBLE TO FORKLIFT TRUCKS	after 4 hours at 20°C after 8 hours at 10°C
CONSUMPTION	2 kg/m <sup>2</sup> per mm of thickness depending on the temperature and the absorbency of the substrate
MAXIMUM THICKNESS PER LAYER	0-5 mm

Times can vary depending on the substrate temperature and on the thermo-hygrometric environmental conditions.

The above values are indicative and calculated at a temperature of 20° C and relative humidity of 65%.

## EPOBETON C PERFORMANCE CHARACTERISTICS - UNI EN 1504 -3

### PRODUCTS FOR THE PROTECTION AND REPAIR OF CONCRETE - STRUCTURAL AND NON-STRUCTURAL REPAIR

Feature	Test method	Performance
<b>COMPRESSIVE STRENGTH</b>	UNI EN 12190	80 MPa
<b>ADHESION TEST</b>	UNI EN 1542	4.1 MPa
<b>RESISTANCE TO CARBONATATION</b>	UNI EN 13295	Meets specifications
<b>MODULUS OF ELASTICITY</b>	UNI EN 13412	20 GPa
<b>SKID RESISTANCE</b>	UNI EN 13036-4	Class I
<b>THERMAL COMPATIBILITY</b> - part 1 on MC 0.4 after 50 cycles	UNI EN 13687-1	4.1 MPa - 3.9 min.
<b>CAPILLARY ABSORPTION</b>	UNI EN 13057	0.01 kg/m <sup>2</sup> x h <sup>0.5</sup>

### ANCHORING OF STEEL REINFORCEMENTS - 1504-6

Feature	Test method	Requirement	Performance
<b>PULL-OUT STRENGTH OF STEEL REINFORCING BARS</b> - relative displacement with an applied load of 75 kN	UNI EN 1881	≤ 0,6mm	0,32
<b>CREEP</b> - relative displacement after loading of 50 kN for 3 months	UNI EN 1544	≤ 0,6mm	0,32

## ITEM SPECIFICATIONS



**Technical Specification - EPOBETON C**, the two-component solvent-free epoxy mortar, is used for fast repair of floors. It ensures high mechanical strength quickly thus reducing commissioning time for flooring.

### Legal notice - SLCMP version dated 01.03.2017

In the technical specifications herein, Draco Italiana s.p.a. used the indicators therein specified, with the relevant standards.

Please check if this Sheet and the figures therein contained apply to the product batch you are interested in or if they have been overridden by any later release. If in doubt, check whether this Sheet matches the one applicable at the time of finalising the sales agreement, at [www.draco-edilizia.it](http://www.draco-edilizia.it), and/or contact our Engineering Department.

No advice provided by our staff, either verbally or in writing at your request, about the potential applications of the Products shall be binding under the sales agreement or shall be considered an integral part of the agreement. Such advice is based on our experience and on the best available practical and/or scientific knowledge; as such, it shall not be binding or conditional on the buyer or user. Please try our products first to find out whether they are fit for your intended use or application; in any case, you shall be solely responsible for your choice.