



# EPOTEK RIPRESA

BICOMPONENT SOLVENT-FREE EPOXY  
RESIN WITH VERY LOW VISCOSITY FOR JET  
RECOVERY AND STRUCTURAL BONDING

## DESCRIPTION

EPOTEK RIPRESA is a two-component, low-viscosity, solvent-free, alkaline-stable epoxy resin, specially formulated for adhesion of new concrete castings to existing castings. EPOTEK RIPRESA is used for repairing damaged, uneven structures, filling cracks or restoring and levelling flat concrete surfaces. Due to its fluidity and its compatibility with wet substrates, it is ideal for structural injections. Available in summer and winter version.

EPOTEK RIPRESA was designed to create a "structural" bonding layer between new concrete or repair mortar and old concrete. In the tear-off tests, no product detachments from the supports have ever occurred, but only a breakage of the concrete support.

## SPECIFICATION

EPOTEK RIPRESA is specific for:

Structural casting recovery: fresh on fresh or fresh on hardened;  
Structural bonding: of cracks, rigid joints in industrial floors, pillars, beams (maximum size 5 mm).

## IMPLEMENTATION

EPOTEK RIPRESA owns:

- strong adhesive power, in addition to antioxidant and anti-carbonation properties
- high resistance to water and alkalis, saline solutions, hydrocarbons, most organic solvents and lubricating oils.
- very low viscosity without solvents, for which it provides high wetting and penetration without shrinkage
- Perfect adhesion on wet substrates, on iron, glass, glass, ceramics, concrete, rock, etc.
- excellent mechanical performance with high compression and flexural strength
- waterproof

## PHYSICAL CHARACTERISTICS

Colour	Greyish
Ratio A: B (Summer version)	1:0,30 by weight
Ratio A: B (Winter version)	1:0,36 by weight
Specific gravity	1,33 ± 0,03 kg/dm <sup>3</sup>
Dry residue	100%
Pot-life I (100g at 10°C)	> 240 min
Pot-life E (100g at 10°C)	> 330 min
Pot-life I (100g at 20°C)	> 150 min
Pot-life E (100g at 20°C)	> 240 min



Pot-life I (100g at 30°C)	> 60 min
Pot-life E (100g at 30°C)	> 150 min
Touch hardening (at 20°C)	approx. 24 h.
Total hardening (at 20°C)	7 days
Minimum application temperature	> 5°C
Compressive strength	65 MPa
Tensile strength	25 MPa
Flexion resistance	30 MPa
Elastic modulus	> 2300 MPa
Film drying time (at 20°C)	approx. 7 h
Flammability	Group C
Surface hardness	Shore D. 86

## Adhesion cls-cls

mismatch:	0%
Breakage of adhesion:	0%
Breakage appl.:	100%

## CONSUMPTION

EPOTEK RIPRESA is supplied in two separate packages:

A = basic formulation, B = hardener.

Before taking the necessary quantities, both products must be properly mixed, each in its own packaging. It is then recommended to mix them at the time of use, combining hardener (B) with the basic



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The information contained in this data sheet, while representing the current state of knowledge, do not release the user from the accurate preliminary tests in their conditions of employment and exercise. We assume no responsibility for the improper use of the product.



## TECHNICAL DATA SHEET



formulation (A) in the weight ratios indicated on the packs. Mixing must be done for approx. 5 minutes with a mechanical stirrer, if possible, equipped with a low speed base propeller, in order to avoid occlusion of air in the product. It must be mixed up to a total homogeneity, avoiding overheating of the mixture (main cause of reduced workability time).

EPOTEK SUB is supplied in two separate packages:

A = basic formula, B = hardener.

Mix the base (A) and hardener (B) at the time of use in the proportions of weight indicated on the packaging.

The blend must be mixed for 5 minutes with a mechanical mixer equipped with a low speed propeller to avoid entrapment of air into the product.

It must be mixed up to a total homogeneity, avoiding overheating of the mixture (especially due to shortening of working times).

The two components must be carefully mixed until the product (A+B) becomes homogeneous, after which it can be applied by spreading it over the surfaces to be assembled.

## IMPLEMENTATION

If EPOTEK RIPRESA is applied to hardened concrete, it must be ensured that the surfaces are clean, compact, dust-free and free of friable and loose parts, free from oil and grease stains. To sew a gap: Drill holes along the entire length of the gap for a depth of at least 10 cm. Both the distance between the holes and the depth of the holes is in function of the size and depth of the sewing gap.

## CONSUMPTION

From 400 to 800 gr/m<sup>2</sup>, depending on the porosity of the support.

## PRECAUTIONS/WARNINGS

Avoid contact with skin and eyes.

In case of accidental contact, wash the area affected with neutral soap and water

## PACKAGING

EPOTEK RIPRESA is available in packaging:

WINTER VERSION

from kg (A+B) = 5+1.8 = 6.8 kg

from kg (A+B) = 10+3.6 = 13.6 kg

from kg (A+B) = 15+5.4 = 20.4 kg

SUMMER VERSION

from kg (A+B) = 5+1.5 = 6.5 kg

from kg (A+B) = 15+4,5 = 19,5 kg

kg (A+B) = 20 + 6 = 26 kg

The product in its original packaging, in separate packages, stored at a temperature of not less than 10° C, has a stability of more than one year.

If the temperature falls below 10°C, the resin may have increased viscosity and lumps. In this case, before using it, heat the closed pack by soaking the bucket in hot water until the lumps disappear.



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