

Epobinder

Fluid epoxy system for construction joints, grouting on concrete, synthetic mortars and finishings.

Epobinder is compliant with the performance requirements of standard EN 1504-4 for structural bonding, standard EN 1504-5 for injection products and standard EN 1504-6 for anchoring products.



1. Excellent workability
2. For the execution of construction joints
3. To make epoxy finishings and screeds
4. Ideal to seal cracks in mineral or cement-based screeds
5. Can be applied with airless pump

Areas of application

→ Intended use

- Additional construction joints on the extrados of horizontal structures for the strengthening of beams and pillars.
- Creation of waterproof rigid joints between hardened and fresh concrete.
- Precision fastening and structural anchoring of metal elements on concrete.
- Adhesion promoter for mortars on metal surfaces, in combination with a dusting of quartz.
- Horizontal and vertical surfaces applications.
- Sealing of cracks in cement-based screeds.
- Structural bonding of steel plates (beton plaqué) and grouting of bars with elements in reinforced concrete.
- Creation of synthetic mortars and finishings on concrete in combination with Quarzo 1.7.

Instructions for use

→ Preparation of substrates

Before applying Epobinder it is necessary to:

- clean the surface from dust, oil and grease;
- remove loose debris or flaky parts that are not perfectly anchored until a clean, highly cohesive substrate is obtained;
- the substrate must be dry in order not to compromise the adhesion of the system. Slight humidity is tolerated.

→ Preparation

Epobinder is prepared by mixing component A with component B (preset ratio 4:1 in the packagings) with a low-rev, mechanical stirring device (< 500 r./min.), until a uniform light grey liquid is obtained. Workability times may vary according to the quantity of the mixed paste and the temperature of the environment and substrate: the higher the temperature or the larger the mixture, the lower the workability time. To obtain a longer workability time in case of high temperatures, it is advisable to cool the components individually before mixing them. Similarly, in case of low temperatures, it is advisable to maintain both components at a temperature of not less than +10 °C, prior to application.

→ Application

Epobinder can be applied with a roller, brush or airless spray.

- For construction joints, mortar or concrete must be cast on the fresh resin before the surface film forms at the start of the polymerisation process.
- For grouting of bars, fill the clean hole previously made with Epobinder and insert the bar with a rotating movement.
- To seal gaps, widen the gap using a sander; remove dust residues with compressed air and pour Epobinder.
- To increase adhesion on metal elements after cleaning and preparing the metal surface itself, apply the product on the contact surface; then sprinkle with rough quartz. Only apply the mortar after the resin has hardened.
- To prepare epoxy finishings: mix with Quarzo 1.7 until a mixture of appropriate consistency is obtained (approximately 1 part Epobinder and 2 parts Quarzo 1.7); apply wet-on-wet only after having primed the area with the same product.
- To prepare epoxy screeds: mix with Quarzo 1.7 until a mixture of appropriate consistency is obtained (approximately 1 part Epobinder and 4 parts Quarzo 1.7); apply wet-on-wet only after having primed the area with the same product.

→ Cleaning

Residual traces of Epobinder can be removed from tools with solvents before the product hardens.

Certificates and marks



* Émission dans l'air intérieur Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

Abstract

Supply and laying of a fluid, epoxy system, such as Epobinder by Kerakoll, for construction joints, grouting on concrete, synthetic mortars and finishings, to be applied with a roller, brush or airless spray. CE-marked and compliant with the performance requirements of standard EN 1504-4 for structural bonding products, standard EN 1504-5 for injection products and standard EN 1504-6 for anchoring products; according to principles as defined by standard EN 1504-9.

Supply and laying of a synthetic mortar or finishing such as Epobinder with Quarzo 1.7 by Kerakoll, for repairing of concrete floors and expansion joints. To be applied with a spreader.

Technical Data compliant with Kerakoll Quality Standard

Appearance	part A grey liquid, part B beige liquid	
Volumetric mass	part A 1550 kg/m ³ – part B 980 kg/m ³	
Shelf life	≈ 12 months from production in the original sealed packaging	
Warning	protect from frost, avoid direct exposure to sunlight and sources of heat	
Pack	monopack part A 2.4 kg + part B 0.6 kg part A bucket 7 kg, part B bucket 1.75 kg	
Mixing ratio	part A : part B = 4 : 1	
Viscosity of the mixture	≈ 1180 mPas (rotor 3 RPM 20)	Brookfield method
Density of the mixture	≈ 1490 kg/m ³	
Pot life (1 kg):		
- at +10 °C	≈ 110 min	EN ISO 9514
- at +21 °C	≈ 75 min	EN ISO 9514
- at +30 °C	≈ 40 min	EN ISO 9514
Open time:		
- at +10 °C	≈ 150 min	EN 12189
- at +21 °C	≈ 120 min	EN 12189
- at +30 °C	≈ 90 min	EN 12189
Temperature range for application	from +5 °C to +35 °C	
Coverage:		
- construction joints on rough substrates	≈ 0.7 – 1 kg/m ²	
- construction joints on irregular substrates	≈ 1 – 2 kg/m ²	
- bonding of prefabricated elements	≈ 1.6 kg/m ² per mm of thickness	
- sealing of cracks	≈ 1.6 kg/dm ³	
- synthetic finishing (ratio 1 : 2 = Epobinder : Quarzo 1.7)	≈ 0.67 kg/m ² per mm of thickness	
- synthetic screed (ratio 1 : 4 = Epobinder : Quarzo 1.7)	≈ 0.38 kg/m ² per mm of thickness	

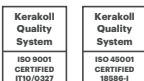
Performance					
VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions					
Conformity	EC 1 plus GEV-Emicode	GEV certified 17486/11.01.02			
HIGH-TECH					
Performance characteristic	Test Method	Requirements of standard EN 1504-4	Performance		
			24 hrs	2 days	3 days
Compressive strength (N/mm ²):	EN 12190				
- undiluted		≥ 30	> 60	> 62	> 70
- synthetic finishing (1 : 2)			> 70	> 80	> 85
- synthetic screed (1 : 4)			> 48	> 54	> 56
Adhesion/bond strength	EN 12636	adhesion to dry concrete	value exceeded		
Sensitivity to water	EN 12636	adhesion to damp concrete	value exceeded		
Shear strength	EN 12615	≥ 6 N/mm ²	> 16 N/mm ²		
Linear shrinkage	EN 12617-1	≤ 0.1%	< 0.1%		
Workability at +23 °C (measured with ≈ 0.5 kg of product)	EN ISO 9514		75 min.		
Glass transition temperature	EN 12614	> +40 °C	+60 °C		
Secant elastic modulus under compression	EN 13412	≥ 2000 N/mm ²	3200 N/mm ²		
Coefficient of thermal expansion (measured between -25 °C and +60 °C)	EN 1770	≤ 100x10 ⁻⁶ K ⁻¹	< 60x10 ⁻⁶ K ⁻¹		
Durability (resistance to freeze/thaw cycles)	EN 13733	no collapse in steel/adhesive/steel test specimens	value exceeded		
Reaction to fire	EN 13501-1	Euroclass	and		
	Test Method	Requirements foreseen by EN 1504-5	Performance		
Adhesion (tensile strengt)	EN 12618-2	cohesive failure in the substrate	value exceeded		
Shear strength	EN 12618-3	monolithic failure	value exceeded		
Volumetric shrinkage	EN 12617-2	< 3%	< 3%		
Glass transition temperature	EN 12614	≥ +40 °C	+60 °C		
Workability time for injections (injectability time in 0.5 mm cracks):	EN 12618-2				
- percentage of crack filling on dry substrates		> 90%	100%		
- percentage of crack filling on damp substrates		> 90%	100%		
Durability (resistance to freeze/thaw cycles)	EN 12618-2	cohesive failure in the substrate	value exceeded		

Performance

	Test Method	Requirements of EN 1504-6	Performance
Pull-out strength of steel rebars (movement in mm in relation to a 75 kN load)	EN 1881	≤ 0.6 mm	0.37 mm
Creep under load (movement in mm under a continuous load of 50 kN after 3 months)	EN 1544	≤ 0.6 mm	0.46 mm
Glass transition temperature	EN 12614	≥ +45 °C	+60 °C

Warning

- Abide by any standards and national regulations
- use at temperatures between +5 °C and +35 °C
- apply on dry substrates
- do not apply on dirty or loose surfaces
- Protect surrounding surfaces from accidental smearing and staining, which would be difficult to remove
- clean tools immediately after use with solvents (ethyl alcohol, toluene, xylene)
- always use protective gloves and eyewear both during mixing and during application
- avoid any contact with the skin
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll Worldwide Global Service +39 0536 811 516 - globalservice@kerakoll.com



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