

P5

Flexibilizing agent for mineral mortars and fine grain concrete.

P5 increases substrate adhesion, reduces water absorption and enhances the level of compactness and flexibility. For slurry keys used in additional casting layers and in restoration work. For internal and external use.



1. As an additive for mortars, fine and standard-grain concrete and adhesive slurries
2. High-adherence plasters with high chemical and mechanical resistance
3. Cement-based rendering and patching
4. Flexible mineral or cement-based finish coatings
5. Preparation of slurry keys for the repair or reconstruction of concrete on beams, pillars, balconies and cornices

Areas of application

- As an additive in mortars and fine-grain concretes and in the preparation of slurry keys for:
- restoration or reconstruction of concrete on beams, pillars, balconies and cornices
 - high-adherence plasters with high chemical and mechanical resistance
 - flexible cement finishing
 - cement-based rendering and patching

- Use
- For internal and external use. For traditional cement-based mortars, fine-grain concrete, standard concrete and adhesive slurries.

Do not use as a primer in additional casting layers on cement-based substrates when undiluted or diluted with water.

Instructions for use

- Preparation of substrates
- Slurries and mortars containing P5 must be applied to cured surfaces that are clean, solid and free from oil, grease and efflorescences. Residual traces of parting compounds should be removed. It is always advisable to dampen the substrate before application.

- Preparation
- Mix P5 and the water in advance to the desired ratio and then add the cement and sand. Mix carefully to prevent the formation of lumps. The recommended mixing ratios are as follows:
- adhesive slurries: 1.5 part P5, 1 part water, 3 parts cement.
 - cement-based mortars with additives: 1.5 part P5, 2 parts water, 5 parts cement, 10 parts sand.
- The dosages for mortar composition may vary according to use.
- The dosage of P5 must be between a minimum of 20% and a maximum of 40% of the weight of the cement.

- Application
- Cement-based mortars with additives for the reconstruction of concrete on columns, beams, balconies and cornices: dampen the substrate and first apply a rough coat of adhesive slurry using a hard brush. While it is still wet, carry out the reconstruction with the cement-based mortar with additives.
- Anti-debonding and high-performance plasters: dampen the substrate and manually apply an adhesive first coat, leaving the surface as rough as possible. When the first coat has hardened, apply the layer of plaster using cement-based mortar with additives.
- Slurry keys for concrete construction joints: dampen the substrate and apply a coat of adhesive slurry, followed immediately by the concrete casting while the previous coat is still fresh.
- Cleaning
- Tools and surfaces covered with residues of slurry or mortar with additives should be cleaned with water before they harden.

Special notes

- Dilute P5 in the mixing water. When mixing additives with ready-mixed mortars or plasters for mechanised applications, draw the water/latex

mix directly from a container (drum) set aside for this purpose on the building site, using the lift pipe of the spray machine.

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

Anchoring slurry: before patching concrete with mortar roughen the surface using mechanical means, wash thoroughly with a high pressure washer and lay a slurry key made up of cement, water and water-based flexibilizing agent for use as a high-performance additive in cementitious mortars and fine-grain concretes, such as P5 by Kerakoll Spa, in a ratio of 40% by weight of the cement. Add the patch layer to the freshly applied slurry.

Additives for cement-based mortars: cementitious mortars must be mixed with water-based flexibilizing agent for use as a high-performance additive in cementitious mortars and fine-grain concretes, such as P5 by Kerakoll Spa, in a ratio of 30% by weight of the cement to make the mortar compact, adhesive and flexible.

Additives for standard and fine-grain concretes: standard and fine-grain concretes must be mixed with water-based flexibilizing agent for use as a high-performance additive in cementitious mortars and fine-grain concretes, such as P5 by Kerakoll Spa, in a ratio of 20% by weight of the cement to make the concrete compact, adhesive and flexible.

Technical Data compliant with Kerakoll Quality Standard

Appearance	white liquid	
Specific weight	≈ 1.01 kg/dm 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	25 - 5 kg cans	
Viscosity	≈ 1200 mPa · s, rotor 2 RPM 20	Brookfield method
pH	≈ 9	
Recommended ratios for:		
- concrete	≈ 20 – 40% of the weight of cement	
- mortar	≈ 20 – 40% of the weight of cement	
- adhesive slurry	≈ 1.5 P5 : 1 water : 3 cement	
Temperature range for application	from +5 °C to +30 °C	

Performance**HIGH-TECH**

Comparison between:

- standard mortar	3 sand : 1 Portland 32.5 cement; water/cement = 0.5
- standard mortar with additive	standard mortar + P5 equal to 30% of the weight of the cement

Improvements achieved with P5:

- mixing water	-3%	
- static modulus of elasticity	-38%	EN 13412
- adhesion to concrete after 28 days	+5% (breakage mortar)	CSTB 2893-370
- shear strength on concrete after 28 days	+75%	

Comparison between:

- construction joint on concrete	without slurry key
- construction joint on concrete	with slurry key (1 P5 : 1 water : 3 cement)

Improvements achieved with P5:

- adhesion to concrete after 28 days	+45%	CSTB 2893-370
- shear strength on concrete after 28 days	+51%	

Values taken at +20 ± 2 °C, 65 ± 5% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

Warning

- Abide by any standards and national regulations
- use at temperatures between +5 °C and +30 °C
- protect the product from frost, store at a temperature above +5 °C
- protect the applied product from sun and direct rainfall until it has dried completely
- it is advisable to keep the applied product wet for several days after carrying out the work, especially in summer
- 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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