



PAGEL®-EPOXY MORTAR

PROPERTIES

- Easy to apply
- Abrasion proof
- Ready for use resin/hardener/filler
- Waterproof
- 3-component

FIELDS OF APPLICATION

- Industrial facilities, warehouses, garages, repair areas
- Primers: EH1, EH114, EH115
- Posts and pillars
- Ramps
- Joint bridging structures
- Roller-gate floor beam
- Passenger and heavy goods vehicle scales
- Packing up posts and railing posts

EH2

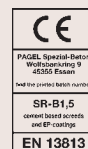
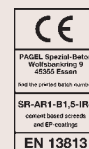
EH192

EH2

- Highly economical packing mortar
- 2-40 mm
- Pigmented

EH192

- Universal mortar coating
- 3-50 mm
- Transparent



TECHNICAL DATA

TYPE		EH2	EH192
Colour	RAL*	app. 7024, 7032	transparent
Mixing ratio (resin:hardener + sand/0-1mm)	Ratio by weight	3:1:29	2:1:16
Density (23°C/50% rel. humidity)	kg/dm ³	2.0	2.0
Preparation time	at 10°C	min. app. 40	app. 40
	at 20°C	min. app. 30	app. 30
	at 30°C	min. app. 20	app. 20
Minimum surface temperature at the subsurface	°C	+10	+10
Material consumption	kg/l	2.0	2.0
Coating thickness	mm	3-40	3-50
Adhesive tensile strength	N/mm ²	Concrete failure (4.1)	Concrete failure
Compressive strength*	1 d	N/mm ² ≥ 45	≥ 90
	7 d	N/mm ² ≥ 80	≥ 100
	28 d	N/mm ² ≥ 90	≥ 105
Bending strength	1 d	N/mm ² ≥ 15	≥ 25
	7 d	N/mm ² ≥ 20	≥ 30
	28 d	N/mm ² ≥ 20	≥ 30
Packaging	kg container	12.5	10

* Other RAL colours available upon request

All test data are guide values, proofed in our German manufacturing plants, - values from other manufacturing plants may vary.

* DIN EN 196-1-compliant compressive strength testing

Storage: Store in a dry place and protect from frost
Storage time: Can be stored for up to 6 months in sealed containers
Hazard class: Non-hazardous material, please see safety data sheet

EH2, EH192: The EU VOC content threshold value for these products (Cat. II A/j) when ready for use is: 550 g/l (2007) / 500 g/l (2010). When ready for use, these products contain < 500 g/l VOC.

PROCESSING

SUBSURFACE PREPARATION: Concrete surfaces must be prepared by, e.g. grit blasting, milling etc., to make sure that they are ready for the coating, slightly roughened, free from dirt and any other objects that might prevent adhesion. The concrete aggregate must be exposed. The subsurface must have a pull-off strength of around 1.5 N/mm². The subsurface must be protected against rising damp before priming. Please take note of the dew-point temperature.

MIXING THE PRIMER (EH1, EH114, EH115): The resin (A) and hardener (B) are supplied ready for mixing (with the exception of resin and hardener supplied in barrels). Empty all of the hardener into the resin. Thoroughly mix the two components with a mechanical agitator with a speed of no more than 300 rpm until the mixture has been homogeneously blended (approx. 5 minutes). Transfer the mixture into a clean container and carefully mix again. The temperature of both of these components must be above +8°C.

APPLYING THE PRIMER (EH1, EH114, EH115): The primer should be applied using, e.g. a rubber scraper, and evenly distributed on the concrete subsurface. If necessary, the fresh primer can be covered with tempered sand (particle size: 0.1 - 0.3 mm) straight after application (requires approx. 1.5 - 3.0 kg/m² sand).

If the surface is very uneven, the primer can be mixed with 35 - 45 % quartz sand (0.1 - 0.4 mm). This mixture is then applied using a scraper.

MIXING THE EPOXY RESIN MORTAR COATING (EH2, EH192): The resin (A) and hardener (B) are supplied ready for mixing. Empty all of the hardener into the resin. Thoroughly mix the two components with a mechanical agitator with a speed of no more than 300 rpm until the mixture has been homogeneously blended (approx. 5 minutes). Transfer the mixture into a clean container and carefully mix again. The temperature of both of these components must be above +8°C.

Add the homogeneously blended resin/hardener mixture to the filler component (C) and mix using a mechanical agitator with a speed of no more than 300 rpm until the mixture has been homogeneously blended (approx. 5 minutes).

EAPPLYING THE EPOXY RESIN MORTAR COATING (EH2, EH192): Apply the homogeneously epoxy resin mortar mixture to the fresh - still sticky - primer to create a thick layer. Apply and compact using a trowel in areas where material has broken away, over holes and trip hazards and over smaller areas. Compact using e.g. a motorised smoothing board or compacting beam for larger areas until the surface structure is attained.

CURING: The curing of reactive polymers is affected in particular by the ambient and subsurface's temperature. Low temperatures slow the polymer's chemical reactions and thus prolong the time required for application, until the surface is ready for the second coat, until being able to walk on, and the floor's total curing time; as well as increasing the amount of material required due to the higher viscosity. High temperatures accelerate the chemical reactions, thus correspondingly diminishing the above times. In order for the reactive polymer to fully cure, the mean temperature of the subsurface must always be higher than the minimum temperature.

When used outdoors, it must be ensured that the coating is protected from damp for a sufficient period of time after application, since premature exposure to damp can cause the surface to turn white and/or sticky, which can significantly impact on the adhesion of the next coating and might mean that the polymer layer might have to be removed again using e.g. sand-blasting. The material underneath this layer cures correctly.

CLEANING: Carefully clean all tools with EH-PAGEL-VERDÜNNUNG (THINNER) immediately after use and when not using them for longer periods of time.

PHYSIOLOGICAL BEHAVIOUR, SAFETY MEASURES, LABELLING AND DISPOSAL: The above products are physiologically harmless after curing. Please refer to the EC Safety Data Sheet for more information on safety measures, product labelling and disposal.

The VBG 23 accident prevention regulations on the application of coatings "Verarbeiten von Beschichtungsstoffen", and data sheet M017 "Lösungsmittel" (Solvents) of the German Berufsgenossenschaft der Chemischen Industrie (Government Safety Organisation of the Chemical Industry) must be observed. Always wear protective goggles and nitrile gloves during application.

The information provided in this leaflet, is supplied by our consulting service and is the end result of exhaustive research work and extensive experience. They are, however, without liability on our part, in particular with regard to third parties proprietary rights, and do not relieve the user of the responsibility for verifying that the products and processes are suitable for the intended application. The data presented was derived from tests under normal climate conditions according to DIN 50014 and mean average values and analysis. Deviations are possible when delivery takes place. Given that recommendations may differ from those shown in this leaflet written confirmation should be sought. It is the responsibility of the purchaser to ensure they have the latest leaflet issue and that its contents are current. Our customer service staff will be glad to provide assistance at any time. We appreciate the interest you have shown in our products. This technical data sheet supercedes previously issued information. Please find the latest leaflet issues at www.pagel.com.



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