

PAGEL®-INJECTION RESIN

PROPERTIES

- 2-component **epoxy-resin**
- **Solvent-free**, unfilled and non-pigmented
- **Low viscosity** and high capillary action
- Penetrates even the smallest of pores and capillaries even **at lower temperatures** and is tolerant of residual moisture
- Develops a high level of **adhesive strength** at the crack side faces
- Very **high level of tensile strength** and low volume shrinkage
- Reliably and **permanently** bonds the sides of cracks together
- Seals cracks and creates a **positive bond**
- When cured, **impermeable to water**, seawater and wastewater, as well as a large number of bases, diluted acids, salt solutions, oils, lubricants, fuels, and a large number of solvents
- Produced in **compliance** with all relevant applicable standards and directives

FIELDS OF APPLICATION

- For **filling** and **injecting into cracks** in cementitious substrates to create positive bonds
- **Seals** and **waterproofs**
- For **filling** hollow screeds
- For **sealing** horizontal cracks

EH145



TECHNICAL DATA			
TYPE		EH145	
Colour	transparent, light yellow		
Mixing ratio	Weight	2:1	
Density (23 °C / 50 % rel. humidity)	g/cm³	1.08	
Viscosity	at 10 °C	mpas	app. 350
	at 20 °C	mpas	app. 250
Working time	at 10 °C	Min.	app. 60–75
	at 20 °C	Min.	app. 45
	at 30 °C	Min.	app. 20–30
Fully cured (100%)	at 20 °C	after d	7
Minimum substrate temperature for application	°C		10
Solid state	%		100
Adhesive tensile strength	Concrete failure		
Note: All of the stated test data are guide values only and have been established at our main German production facility. These values can vary for different production sites.			

Storage: 12 months, in a cool, frost-free and dry location, sealed in the original packaging

Packaging: 1, 6 and 12 kg containers

Hazard class: Non-hazardous material, please see safety data sheet

APPLICATION

SURFACE: The side contact faces of the cracks to be filled must be sufficiently solid. Remove loose fines from inside the cracks by blowing them out with dry, oil-free compressed air or using an industrial vacuum system. **EH145 PAGEL INJECTION RESIN** tolerates residual moisture and is designed for filling and injecting into cementitious substrates to create positive bonds. Observe the requirements of ZTV - ING, Part 3, Solid Structures, Section 5, Filling cracks and voids in concrete components.

MIXING: The resin (A) and hardener (B) components are supplied at the right mixing ratio. Pour the hardener into the resin; make sure that no hardener is left in the container. Thoroughly mix this mixture with a mechanical agitator at no more than 300 rpm (slowly revolving drill with a paddle attachment). Make sure to thoroughly mix the resin and hardener at the bottom and sides of the container to ensure that it is evenly mixed throughout. Continue stirring the mixture until it is homogenous (approx. 5 minutes). Do not apply from the container it was supplied in. Once it has been ready mixed, transfer the mixture into a clean container and carefully mix again. The temperature of the two components should be above 15 °C when being mixed.

APPLICATION: When using special commercial packers, apply as specified by the manufacturer. Seal the crack along its entire visible length with **B1 PAGEL QUICK REPAIR MORTAR**. Once sealed, the crack can be injected using either a low or high-pressure system. Once fully injected, remove the packers. Horizontal cracks up to 0.5 mm wide must be brushed with **EH145** until saturation. Horizontal cracks wider than 0.5 mm must be chiselled out in a V-shape and then cleaned with compressed air. Do not apply at temperatures below 10 °C. Thereafter grout with **EH145** until saturation. In hollow screeds, a hole must be drilled into the screed at its highest points (use cutting check) and filled with **EH145** until it starts to overflow. Make sure to provide a sufficient number of ventilation holes. Please refer to the ZTV Cracks for information on filling cracks and any potentially necessary additional work such as attaching packers or seals.

CURING: The curing behaviour of reactive polymers is affected in particular by the ambient and surface's temperature. Low temperatures slow the polymer's chemical reactions and thus prolong the time required for application, before the surface is ready for the second coat, before being ready for walking on, and the polymer'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 accelerating the above processes.

In order for the reactive polymer to fully cure, the mean temperature of the surface must always be higher than the minimum temperature.

PHYSIOLOGICAL BEHAVIOUR/SAFETY MEASURES

The polymer is harmless after curing. Read and observe the safety information on the container before application. Wash any polymer immediately off the skin using plenty of water and soap. Do not allow the polymer components to get into the sewage system, waterways or soil before fully cured. Absorb any spilled material immediately, e.g. using sawdust. Dispose of the packaging container as specified under the current waste and waste disposal regulations.

CLEANING: All tools and equipment must be carefully cleaned with **EH PAGEL THINNER** or similar after every application step.

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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