

CHANNEL SLURRY

KA CHANNEL SLURRY (0-0.5 mm)

TEST CERTIFICATES AND SUPPORTING DOCUMENTS

- › Factory production control acc. to DIN EN 1504-3
- › Company certification acc. to DIN EN ISO 9001:2015

PROPERTIES

- › Ready to use, synthetically modified, cement-bound, rigid sealing slurry for creating composite coatings with very high resistance to sulfate attacks
- › Ready to use, only requires mixing with water
- › Easy to process
- › Pumpable
- › Impermeable to water and largely resistant to mineral oils and fuels
- › Suitable for manual and machine application
- › Can be manually brushed onto and applied as a coating to vertical and overhead surfaces as well as horizontal concrete substrates
- › Can be sprayed onto vertical and overhead surfaces
- › Dense surface structure
- › Perfectly bonds to load-bearing concrete and brick substrates
- › Complies with the requirements of building material class A1 (non-combustible) as specified under decision 2000/605/EC of the European Commission dated September 26, 2000 (published in the official journal L258)

AREAS OF APPLICATION

- › Waste water collectors
- › Sewage shafts
- › Channel and waste water drainage systems
- › Process water reservoirs
- › Rain retention basins
- › Sealing against non-pressing water (inside and outside)
- › Sealing against soil moisture

MOISTURE CLASSES BASED ON CONCRETE CORROSION FROM ALKALI-SILICIC ACID REACTIONS

Moisture class	WO	WF	WA	WS
KA-Schlämme	•	•	•	•

KA-Schlämme

The aggregates in PAGEL®'s products comply with the requirements of alkali sensitivity class E1 from non-hazardous sources specified under DIN EN 12620.

EXPOSURE CLASS ALLOCATION ACC. TO: DIN EN 206-1 / DIN 1045-2

	XO	XC	XD	XS	XF	XA	XM
	1234	123	123	1234	1234	123*	123

KA-Slurry

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* Having sulfate attack up to 600 mg/l
With protective measures according to DIN 1045-2

TECHNICAL DATA

TYPE		KA Slurry
Grain size	mm	0-0.5
Amount of water	max. %	18
Processing time approx. + 20 °C	min	20
Consumption (dry mortar) approx.	kg/(m ² · mm)	1.8
Fresh mortar raw density* approx.	kg/m ³	2,100
Layer thickness	mm	2-6
- per application step (at least 2)	mm	2
Compressive strength*	2 h N/mm ²	≥ 5
	4 h N/mm ²	≥ 10
	6 h N/mm ²	≥ 13
	1 d N/mm ²	≥ 25
	7 d N/mm ²	≥ 40
28 d N/mm ²	≥ 50	
Bending tensile strength*	2 h N/mm ²	≥ 1
	4 h N/mm ²	≥ 2
	6 h N/mm ²	≥ 3
	1 d N/mm ²	≥ 5
	7 d N/mm ²	≥ 6
28 d N/mm ²	≥ 7	
E-Module (static)	7 d N/mm ²	≥ 19,000
	28 d N/mm ²	≥ 25,000

* Testing of bending tensile and compressive strength in accordance with DIN EN 196-1

Note: All fresh and solid mortars are tested at 20 °C ± 2 °C. Higher or lower temperatures result in deviating properties of fresh respectively solid mortars and test results. Depending on the temperature, the consistency can be adapted with a slight reduction of the mixing water.

Storage:	6 months. Cool, dry, free from frost. Unopened in its original container.
Delivery form:	25 kg bags / 40 bags on Euro pallet, 1,000 kg per pallet
Hazard class:	Non-hazardous material, observe information on packaging.
GISCODE:	ZP1

PAGEL PRODUCT COMPOSITION:

Cement:	acc. to DIN EN 197-1
Aggregate:	acc. to DIN EN 12620
Additions:	acc. to DIN EN 450, general building inspection approval (abZ), DIN EN 13263 (fly ash, microsilica, etc.)

PROCESSING

SUBSTRATE PREPARATION:

Remove loose and unsound material such as cement slurry and dirt etc. using suitable methods, e.g. shot-blasting or similar until the underlying solid grain structure has been exposed.

A sufficient average tear strength (1.5 N/mm², KEW 1.0 N/mm²) must be ensured.

Prewetting:

Prewet the concrete substrate to capillary saturation for approx. 6-24 hours.

Reinforcing steel:

Blast all rust off exposed reinforcement bars until the underlying metal has been exposed acc. to purity grade SA 2 ½ in accordance with DIN EN ISO 12944-4.

CORROSION PROTECTION:

Apply two complete coats of **RM02 CORROSION PROTECTION AND BONDING AGENT** using a brush.

MIXING:

The dry mortar is supplied ready to use and only needs to be mixed with water. Fill the specified amount of water apart from a residual amount into a clean and suitable mixing device (e.g. compulsory mixer). Add the dry mortar and mix for at least 3 minutes. Add the remaining water and mix for at least another 2 minutes until it forms a homogeneous mass.

APPLICATION:

Before applying, fill in any cavities and pores by brushing.

Finishing trowel or float: apply in two work steps in the intended layer thickness fresh-in-fresh and smooth at the same time as applying.

Wide brush: the application is carried out in at least two work steps fresh-in-fresh until the required layer thickness is met. In general, a smoothing is not required.

Wet-spraying process: if necessary, request separate technical advice when applying in wet-spraying process.

Temperature range:	+ 5 °C to + 35 °C
Mixing water:	Drinking water quality

FOLLOW-UP TREATMENT:

Fresh mortar areas must be protected from premature water evaporation (from wind, draughts, direct exposure to sun, etc.) immediately on completion of the work for a period of 3-5 days.

Suitable curing methods: Water spray, foil covers with jute sheets, thermofoils or moisture-retaining covering sheets, **O1** EVAPORATION PROTECTION. The technical data sheet must be observed when using **O1** EVAPORATION PROTECTION.

The information provided in this leaflet, application instructions and other recommendations are based on extensive research and experience. They are, however, not binding, in particular with regard to third party proprietary rights, and do not relieve the customer of his responsibility to verify that the products and processes are suitable for the intended application. The indicated test data are mean values and average analyses. Deviations are possible when delivery takes place. Recommendations that differ from those provided in this leaflet require written confirmation. Planners and operators are responsible for ensuring that this leaflet is the latest edition and for obtaining information on the latest technological developments. Our customer service staff will be happy to answer your questions at any time. Many thanks for your interest in our products. This technical data sheet supersedes all previously issued product information. Please visit our website for the latest valid version of this brochure at www.pagel.com.

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