

## PAGEL®-ANCHOR GROUT

### PROPERTIES

- **E1<sub>white</sub>** (0 – 0.02 inch) Anchor grout - liquid
- **E1SF** (0 – 0.02 inch) Anchor grout - workable
- **high flowability (E1<sub>white</sub>)**
- **soft and plastic consistency**
- cementitious and chloride-free
- controlled and even expansion
- **high early and final strength**
- low w/c-value
- **frost and deicing-salt resistant**, waterproof, widely resistant to oil and petroleum
- building material class A1 (non-combustible) as specified by EN 13501 and DIN 4102/1
- **approved** for use in drinking water areas in accordance with the DVGW Work Sheet W347
- Pagel's Factory Production Control (FPC) complies with the DafStb Directive on the "Manufacture and use of cementitious concrete and grout"
- **company is certified according DIN EN ISO 9001:2015**

<b>CE</b>	
0921	
PAGEL SPEZIAL-BETON GMBH & CO.KG Wolfsbankring 9 45355 Essen, Germany 10 450100 EN 1504-6:2006 E1 PAGEL Anchor grout Anchoring product	
Pull-out	≤ 0.6 mm
Chloride ion content	≤ 0.05 %
Reaction to fire	A1

### FIELDS OF APPLICATION

- **grouting and injecting** of anchors in rock, soil, concrete and masonry (**E1<sub>white</sub>**)
- for **over-head applications** and for **filling joints, cavities and rock anchors (E1SF)**
- use **E1SF** for vertical areas and for the **centrifugal grouting of tubes**

#### Moisture class based on concrete erosion from alkali silicic acid reactions

moisture class	WO	WF	WA	WS
	dry	wet	wet • external supply of alkalis	wet • external supply of alkalis • subject to high levels of dynamic stress
<b>E1</b>	.	.	.	.
<b>E1SF</b>	.	.	.	.

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

Assigning to expositioncategory according to:  
DIN 1045-2 / EN 206-1

#### PAGEL - ANCHOR GROUT

	XO 0	XC 1 2 3 4	XD 1 2 3	XS 1 2 3	XF 1 2 3 4	XA 1 2 3	XM 1 2 3
<b>E1<sub>white</sub></b>	.	....	...	...	...	..	.
<b>E1SF</b>	.	....	...	.	.	.	.



**E1<sub>white</sub>**

**E1SF**

# PAGEL®-ANCHOR GROUT

**E1** white

**E1SF**

TECHNICAL DATA			<b>E1</b> white	<b>E1SF</b>
TYPE				
grain size		inch	0–0.02	0–0.02
amount of water		%	30	13
consistency			liquid	workable
material needed		kg/dm <sup>3</sup>	approx. 99.9	approx. 112.4
density of freshly mixed mortar		kg/dm <sup>3</sup>	approx. 128	approx. 124.9
working time	at +68 °F	min.	approx. 45	approx. 45
expansion	1 d	%	+ 0.3	+ 0.3
compressive strength*	2 h	PSI	–	–
	4 h	PSI	–	–
	1 d	PSI	≥ 5,800	≥ 2,175
	7 d	PSI	≥ 7,975	≥ 5,800
	28 d	PSI	≥ 9,425	≥ 7,250
bending strength	2 h	PSI	–	–
	4 h	PSI	–	–
	1 d	PSI	≥ 725	≥ 580
	7 d	PSI	≥ 870	≥ 870
	28 d	PSI	≥ 1,015	≥ 1,015
packaging		kg-bag	20	25
		kg per pallet	960	1,000

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; DIN EN 12390-3-compliant compressive strength testing

**storage:** 12 months. Cool, dry, free from frost. Unopened in its original packaging.

**packaging:** paperbags (see table below)

**hazard class:** no dangerous substance  
follow safety data sheet

**giscode:** ZP1

## PAGEL GROUT

**cement:** DIN EN 197-1 compliant

**aggregates:** EN 12620 compliant

**additives:** EN 450, AbZ, EN13263 compliant (quick ash, microsilica etc.)

**additional substances:** DIN EN 934-4 compliant

## PROCESSING

**SUBSTRATE:** Clean thoroughly, remove all loose or unsound parts and any cement slurry, pre-water sufficiently.

**MIXING:** Fill the water into a compulsory type mixer retaining a small amount, add the dry mortar and mix for approx. 3 minutes; then add the remaining water and mix for another 2 minutes.

**APPLICATION:** Pouring, injecting or pumping should occur immediately.

**CAUTION:** Protect exposed areas against wind, draughts and premature evaporation by using plastic foils or **O1 PAGEL-CURING AGENT**.

Please contact us in the event of frost, lower temperatures delay the development of strengths and reduce the flowability, higher temperatures accelerate these, colder preparation water reduces the flowability.

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](http://www.pagel.com).



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