



PAGEL®-ANCHOR GROUT

PROPERTIES

- **high flowability**, cement based, non shrink
- **small grainsize** (0–0.02 inch)
- **easy application**, ready for use, just mix with water
- **high early and final strengths**, great adhesion
- **impervious to water** and extensively resistant to oil, checks corrosion at the same time
- **supervised** according to the actual standards. Production certified by **ISO 9001**
- the highly flowable product **E1** is supplemented by **E1SF PAGEL-ANCHOR GROUT** with a **plastic consistency**
- **E1SF** has the **Mining Authority Approval** No. 12.22.66-14-12
- **E2 PAGEL-ANCHOR GROUT** has the same outstanding characteristics as **E1**, however showing a special accelerated start of setting and a reduced potlife

FIELDS OF APPLICATION

- **grouting and injecting** of anchors in rock, soil, concrete and masonry
- for **over-head applications** and for **filling joints, cavities** and **rock anchors**
- use **E1SF** for vertical areas and for the **centrifugal grouting of tubes**

E1_{US}

E1SF_{US}

E2_{US}

E2SF_{US}

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
E1	•	• • •	• • •	• • •	• • • •	• • •	•
E1SF	•	• • •	• •	• •	• • • •	• •	•
E2	•	• • •	• • •	• • •	• • • •	• •	•
E2SF	•	• • •	• • •	• • •	• • • •	• •	•



PAGEL®-ANCHOR GROUT

E1_{US}

E1SF_{US}

E2_{US}

E2SF_{US}

TECHNICAL DATA

TYPE			E1	E1SF	E2	E2SF
grain size	inch		0-0.02	0-0.02	0-0.02	0-0.02
amount of water	%		27,5-30	11-13	20-25	14
consistency			liquid	workable	liquid	workable
material needed	lbs/ft ³		103.01	109.25	109.25	121.74
expansion	1 d	%	0,5	0,3	1,0	0,3
compressive strength*	2 h	PSI	-	-	≥ 1,160	≥ 1,160
	4 h	PSI	-	-	≥ 1,450	≥ 1,450
	1 d	PSI	≥ 5,800	≥ 2,175	≥ 3,625	≥ 5,800
	7 d	PSI	≥ 7,975	≥ 5,800	≥ 5,075	≥ 7,975
	28 d	PSI	≥ 9,425	≥ 7,250	≥ 7,250	≥ 8,700
bending strength	2 h	PSI	-	-	≥ 290	≥ 290
	4 h	PSI	-	-	≥ 435	≥ 435
	1 d	PSI	≥ 870	≥ 580	≥ 1,015	≥ 870
	7 d	PSI	≥ 1,015	≥ 870	≥ 1,305	≥ 1,015
	28 d	PSI	≥ 1,015	≥ 1,015	≥ 1,305	≥ 1,305
packaging	kg-bag		20	25	20	20

All test data are values derived.

* DIN EN 12390-3-compliant compressive strength testing

storage: 9 months, store dry in sealed bags
hazard class: No dangerous substance follow safety data sheet
GISCODE: ZP1
Other cements: Other cements are available however, the technical characteristics may change.



CE Mark and EC conformity according to EN 934-4:2001/A1:2004
 Reg.-No.: 0921-BPR-2010
 EN 934-4 compliant grout additive

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.



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