

PAGEL®-ANCHOR- AND INJECTION-GROUT

Injection Material for filling voids

E 1 F

PROPERTIES

- **high flow capacity**, cement based, non shrink
- **free of aggregates**
- **easy to process**, needs only to be stirred with water
- develops high **early and final strengths** and great adhesive tension
- **impervious to water** and extensively resistant to oil, checks corrosion at the same time
- is subject to our own **constant controlling** in accordance with the recognized standards and guidelines - the production is certified in accordance with **ISO 9001**.

FIELDS OF APPLICATION

- **fixing** of anchorings in rock material, in the ground, in concrete and in masonry
- injection of cracks, joints, gravel patches and cavities in vertical and horizontal positions

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

	XO	XC	XD	XS	XF	XA	XM
	0	1 2 3 4	1 2 3	1 2 3	1 2 3 4	1 2 3	1 2 3
E 1 F	•	• • • •	• • •	• • •	• • • •	• • •	• •



CE	
0921	
PAGEL® Spezial-Beton GmbH & Co. KG D-45355 Essen	
find the printed batch number	
0921-CPD-2096:Factory Essen / 0921-CPD-2097:Factory Dorsten	
EN 1504-6:2006	
E 1 F PAGEL®-ANCHOR- AND INJECTION-GROUT Products for anchoring reinforcing bars (on the basis of hydraulic cement)	
Tightening resistance	≤ ≤ 0,6 mm at a load of 75 kN
Chloridion content	0,007 M.-%
* Glass transition temperature	NPD
Reaction to fire	Euroclass A1
* Creep behaviour while under tensile stress after 3-months of uninterrupted exposure to a load of 50 kN (only applies to polymers)	NPD
Hazardous Substance	In accordance with EN 1504-6:2006, 5.3

NPD: „No Performance Determined“

* It is not possible to determine these characteristics, as the products in question are cementitious.

CE	
0921	
PAGEL® Spezial-Beton Werk Essen	
find the printed batch number	
0921-CPD-2096	
EN 1504-6	

CE	
0921	
PAGEL® Spezial-Beton Werk Dorsten	
find the printed batch number	
0921-CPD-2097	
EN 1504-6	

TECHNICAL DATA			
TYPE			E 1 F
grainsize	mm	0-0,125	
quantity of water	%	35	
consumption	kg/dm ³	1.5	
density of freshly mixed mortar	kg/dm ³	1.965	
measure of time	5 min.	s	≤ 40
	(Marsch: 8 mm nozzle) 60 min.	s	≤ 50
expansion	24h	Vol. %	+ 0.5
compressive strength* (DIN1164)	2 h	N/mm ²	-
	4 h	N/mm ²	-
	24 h	N/mm ²	≥ 30
	7 d	N/mm ²	≥ 45
	28 d	N/mm ²	≥ 60
bending strength	2 h	N/mm ²	-
	4 h	N/mm ²	-
	24 h	N/mm ²	≥ 4
	7 d	N/mm ²	≥ 6
	28 d	N/mm ²	≥ 7

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

supplied in: 20-kg-bags
storage: dry
shelf-life: 9 months in sealed bags
types of Cement: Other types of cement can also be supplied although the technical properties are changed as a result. If you have any queries, please get in touch with our Customer Services.



CE-Mark and EG conformity in accordance to EN 934-4:2002:02
Reg.-No.: 0921-BPR-2010
Additive for concentrate in accordance EN 934-4:T2

PROCESSING

SUBSTRATE: Carefully clean, remove loose and adhesion-reducing parts as well as cement slurry. Pre-wet sufficiently.

MIXING: Apart from a residual quantity, pour the water into the forced-circulation mixer. Add dry mortar and mix for approx. 3 minutes. Add the rest of the water and mix for a further 2 minutes.

PROCESSING: : The casting, injection or pumping process should proceed directly.

Processing time: E 1 F

app. 45 min. (at 30 °C)
app. 60 min. (at 20 °C)
app. 90 min. (at 5 °C)

CAUTION: Protect exposed surfaces against wind, draughts and premature water evaporation e.g. with plastic foil or O1 PAGEL-SURFACE-PROTECTION.

In the event of frost, please get in contact with us; lower temperatures delay the development of strength and reduce flow capacity, higher temperatures accelerate these; colder preparation water interferes with flow capacity.

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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