

PAGEL®-QUICK SETTING GROUT

PROPERTIES

- can be **loaded after just 2 hours**, thus facilitating the early start-up of machines and other dynamically stressed parts, also by 5° C.
- **high flow**
- **ready for use**, need only be mixed with water
- **capable of high level of flow** and can be used as grouting mortar or, depending on the quantity of water, as **tamping mortar**
- was developed on the basis of the well-known V1 PAGEL GROUTING MORTAR, and thus guarantees high quality and durability
- particularly suitable for grouting work at **lower temperatures**
- **free of chlorides**
- does not shrink, **develops a controlled increase in volume** with force-locking bonding between concrete foundation and machine plate
- **resistant to frost and dew-salt**, impervious to water and resistant to oil and chemicals
- can be peeled off in a short time - even at **lower temperatures**, reduces down-time, shortens assembly work and is thus **highly economical**
- can be **pumped** and is easy to process
- depending to the height of the grouting, is supplied in **various grain sizes**, as an option also with steel fibres or basalt sand
- certified to fire protection class A1 as specified by **EN 13501** and **DIN 4102**
- is monitored in accordance with the standards and guidelines in force and production is certified in accordance with **ISO 9001**
- **Complies** with the DafStb Code of Practice (VeBMR) "Manufacture and use of cementbound grout and mortar"

FILES OF APPLICATION

- **quick setting grout mortar** for precision machines of all kinds
- **turbines**, generators, compressors, diesel engines and other power station equipment which are subjected to high vibrations
- **anchor screws**, fixings and base plates
- **steel and concrete supports**
- **finished concrete parts** and steel constructions
- **bridge supports** and bridge joint constructions
- **crane rails** and radio-telescopes
- **steel and metallurgical works** as well as mining installations
- **paper, chemistry and refining equipment**

V 2/1 0

V 2/4 0

V 2/8 0

V 2/1 6 0

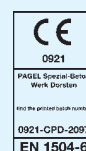
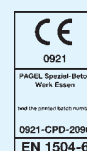
Assigning to expositioncategory according to:
DIN 1045-2 / EN 206-1
PAGEL - QUICK SETTING GROUT

	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
V 2/1 0	*	• • • • •	• • •	• • •	• • • • •	• •	•
V 2/4 0	*	• • • • •	• • •	• • •	• • • • •	• •	•
V 2/8 0	*	• • • • •	• • •	• • •	• • • • •	• •	•
V 2/1 6 0	*	• • • • •	• • •	• • •	• • • • •	• •	•

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				
PAGEL-QUICK-SETTING-GROUT Products for anchoring reinforcing bars (on the basis of hydraulic cement)				
Product	V 2/1 0	V 2/4 0	V 2/8 0	V 2/1 6 0
Tightening resistance	≤ 0,6 mm at a load of 75 kN			
Chloridion content	0,005 M.-%	0,005 M.-%	0,004 M.-%	0,004 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.



PAGEL®-QUICK SETTING GROUT

V 2/10

V 2/40

V 2/80

V 2/160

TECHNICAL DATA

TYPE			V 2/10	V 2/40	V 2/80	V 2/160
grain size	mm		0-1	0-4	0-8	0-16
height of under-casing	mm		15-25	20-100	50-200	100-400
quantity of water	%		13	13	11	10
consumption	app. kg/dm ³		2	2	2.1	2.1
processing time	at 20°C min.		≥ 30	≥ 30	≥ 30	≥ 30
working time	at 20°C Min.		app. 30	app. 30	app. 30	app. 30
measure of flow	5 Min. cm		≥ 65	≥ 65	-	-
	30 Min. cm		≥ 55	≥ 55		
measure of extension	5 Min. cm		-	-	≥ 70	≥ 60
	30 Min. cm		-	-	≥ 62	≥ 52
degree of swelling	24 h Vol. %		+ 0.4	+ 0.4	+ 0.4	+ 0.4
degree of swelling	28 d Vol. %		+ 0.4	+ 0.4	+ 0.4	+ 0.4
compressive strength*	2 h N/mm ²		≥ 5	≥ 5	≥ 5	≥ 5
EN 196-1	4 h N/mm ²		≥ 10	≥ 10	≥ 10	≥ 10
40x40x160mm	6 h N/mm ²		≥ 12	≥ 12	≥ 12	≥ 12
incl. conversion factor f _c , cube= 0,85 x f _c , prism according VeBMR RIII (grout)	8 h N/mm ²		≥ 15	≥ 15	≥ 15	≥ 15
	12 h N/mm ²		≥ 18	≥ 18	≥ 18	≥ 18
EN 12390-3	24 h N/mm ²		≥ 30	≥ 25	≥ 25	≥ 40
(cube150mm)	7 d N/mm ²		≥ 60	≥ 60	≥ 60	≥ 60
(concrete)	28 d N/mm ²		≥ 70	≥ 70	≥ 70	≥ 70
	91 d N/mm ²		≥ 75	≥ 85	≥ 80	≥ 80
E-Modul (static)	24 h N/mm ²		≥ 25,000	≥ 25,000	≥ 25,000	≥ 25,000
	28 d N/mm ²		≥ 30,000	≥ 30,000	≥ 30,000	≥ 30,000

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
All of the test values provided correspond to DafStb VeBMR - directive

storage: 6 months, dry and in closed sacks
supplied in: 25 kg container
danger class: Not a dangerous substance
Observe safety data sheet
Giscode: ZP1



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 and unsound material, as well as any cement slurry, oil, grease, etc. using high-pressure water blasting equipment or similar until the grain structure that will be capable of bearing the grout has been fully exposed; make sure the substrate is of sufficient density and strength (generally 1.5 N/mm²). Wet surface continuously until saturation for approx. 6-24 hours before grouting.

FORMWORK: Must be of rigid construction; carefully seal around concrete base using sand or dry mortar.

MIXING: The grout is supplied ready for use and only needs to be mixed with water. Please refer to the instructions provided on the bag for the correct quantity

of water and then pour 2/3 of that quantity into a clean and suitable mixing device (e.g. compulsory mixer).

Add the dry mortar and mix for approx. 3 minutes. Add the remaining water and mix for another 2 minutes. Pour the mixture immediately. If you are using a gravity mixer, dampen and, if required, clean the inside of of the mixer to remove any dry material before mixing the mortar.

GROUTING: The mixture should be poured from one side or corner only in one continuous pour. When grouting large areas, we recommend pouring the grout starting at the centre of the base using a funnel and/or a hose. Always grout anchor holes first (up to just below the top edge of the anchor hole) and then proceed to grouting the machine base etc.

CAUTION: Exposed areas: must be protected from wind, drafts and rapid evaporation of water (using foils, jute insulation, O1 PAGEL-CURING AGENT). Please refer to and observe the additional specifications listed on the O1 PAGEL-CURING AGENT technical data sheet if the grout will be exposed to extremely high or low temperatures, direct sunlight or wind.

Classified in accordance with DafStb VeBMR RIII				
Classified				
	V 2/10	V 2/40	V 2/80	V 2/160
Flowability/Expansion class	f2	f2	a3	a2
Shrinkage class	SKVM II	SKVM II	SKVB I	SKVB I
Early strength class	B	B	B	A
Compressive strength class	C55/67	C55/67	C60/75	C60/75

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