

PAGEL®-GROUT

PROPERTIES

- **cementbased** and **chlorid-free**
- **controlled and even expansion** with a rigid bond between concrete foundation and machine base plate
- **high early and final strength:**
24 h: 51 N/mm², 28 d: 86 N/mm² (20 °C)
- **low modulus of elasticity** in connection with high bending strength:
24 h: 6 N/mm², 28 d: 12 N/mm² (20 °C)
- **resistant to cracks** even when having a low w/c-value
- **resistant to freeze/thaw cycles**, waterproof, resistant to oil and petrol
- **pumpable** and easy to pour – even when having low temperatures
- for different grouting heights we have the following products:

V1® (0–4 mm) 20–70 mm grouting height

V12 (0–8 mm) 50 – 100 mm grouting height

FIELDS OF APPLICATION

- **grouting height 20 to 70 mm**
- **universal-grout** for precision machines of any kind
- **anchor screws**, leveling units and sole plates
- **turbines**, generators, compressors, diesel engines and other power equipment operating under heavy vibration
- **steel and concrete columns**
- **prefabricated concrete units** and structural steelworks
- **bridge bearings** and construction joints
- **crane rails** and radio telescopes
- **steel and blast-furnace plants** as well as mines
- paper plants, chemical plants and refineries

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

	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
V1®	•	• • • •	• • •	• • •	• • • •	• •	•
V12	•	• • • •	• • •	• • •	• • • •	• •	•

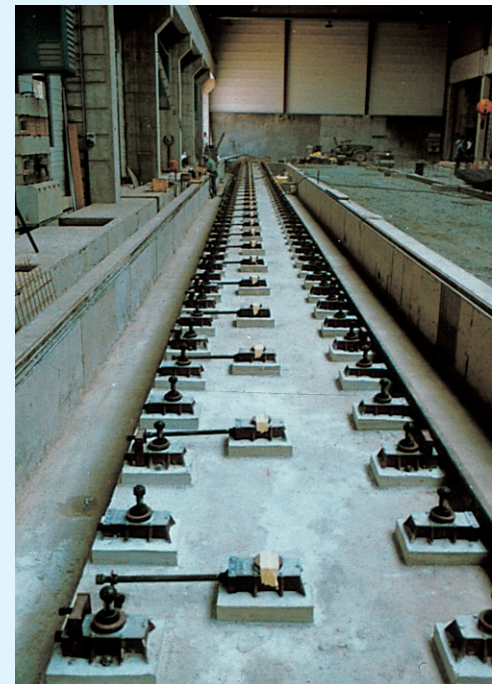
V1®

V12

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	
V1® PAGEL®-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	0,005 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	
<small>PAGEL Spezial-Beton Werk Essen</small>	
<small>year = find the printed batch number</small>	
0921-CPD-2096	
EN 1504-6	

CE	
0921	
<small>PAGEL Spezial-Beton Werk Dorsten</small>	
<small>year = find the printed batch number</small>	
0921-CPD-2097	
EN 1504-6	

V1®

V12

TECHNICAL DATA

TYP		V1®	V12
grain size	mm	0-4	0-8
grouting height	mm	20-70	50-100
amount of water	%	16	11
amount required	kg/dm ³	1.90	2.0
density	kg/dm ³	2.27	2.21
working time	at + 20 °C	min app. 60	app. 60
flowability	cm	≥ 65	-
	cm	≥ 55	-
expansion	Vol %	+ 0.1	+ 0.1
compressive strength (DIN 1164)	1 d N/mm ²	≥ 40	≥ 45
	7 d N/mm ²	≥ 60	≥ 70
V12: cube 15 x 15 cm	28 d N/mm ²	≥ 75	≥ 75
bending strength	1 d N/mm ²	≥ 4	-
	7 d N/mm ²	≥ 6	-
	28 d N/mm ²	≥ 8	-

All test data are guide values, proofed in our German manufacturing plants, - values from other manufacturing plants may vary.

storage: 12 months dry and in closed bags

packaging: 25-kg-bags

hazard class: Non-dangerous goods, observe information on packaging

compressive strength test:

V1® according DIN EN 196-1

V12 according DIN EN 12390-3



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

SURFACE: Clean thoroughly, free of loose and unsound material, remove any cement slurry by means of hydraulic water-blasting or similar till carrying capacity of grain structure is reached. Sufficient adhesion must be granted (i. m. > 1.5 N/mm²). Prior to grouting, the surface must be wetted continuously for approx. 6-24 hours till saturation.

FORMWORK: Must be of rigid construction, with sand or dry mortar being placed around the concrete base carefully to prevent leakage.

MIXING: The grout is ready for use, only water is to be added. Measure out the correct quantity of water and fill two thirds of this into a concrete mixer, add the dry mortar and mix for about 3 minutes. Then fill in the remaining water and mix for another 2 minutes. Grouting then should take place immediately.

GROUTING: Place the mixed grout from one side or corner only in one continuous pour. When grouting large areas we suggest to pour starting from the middle – using a pipe or funnel. When installing machines fill the anchor bolt pockets first (up to approximately top of anchor bolt pockets) and then the underside of the machine. Potlife: approx. 120 min.

CAUTION: Open areas must be protected against wind, draught and premature evaporation by using for example plastic foil or **O1 PAGEL-CURING AGENT**. Heights and shoulders around base plates must not exceed 50 mm. Before placing in freezing conditions please contact our Technical Department. Low temperature working conditions retard the strength development and reduce the flowability while high temperatures accelerate the same.

TEMPERATURE: Can be applied at temperatures of between +5°C and +35°C, low temperatures and cold mixing water will delay strength development and reduce flowability, while high temperatures accelerate these processes.

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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