

# PAGEL®-GROUT

## PROPERTIES

- controlled and even expansion with a rigid bond between concrete foundation and machine base plate
- high early and final strength:  
24 h: 40 N/mm<sup>2</sup>, 28 d: 80 N/mm<sup>2</sup> (20 °C)
- low modulus of elasticity in connection with high bending strength:  
24 h: 5 N/mm<sup>2</sup>, 28 d: 9 N/mm<sup>2</sup> (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
- externally tested and factory quality control according to the “Merkblatt für Vergussmörtel” (“Leaflet for Grouts”) (DBV)
- permission for use in drinking water areas
- “Allgemeine bauaufsichtliche Zulassung” (General Constructional Permission) Mo. Z-3.21-1461 (DIBt) for the Additive-Concentrate
- for different grouting heights we have the following products:

**V1 (0-4 mm) 20-70 mm grouting height**

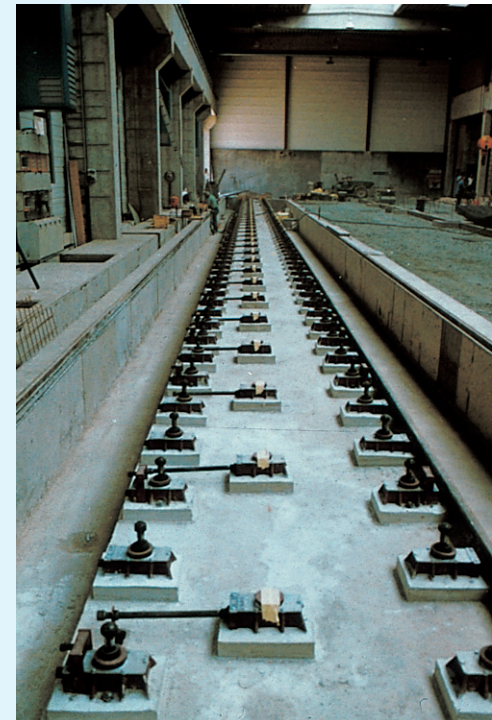
**V12 (0-8 mm) 5 - 100 mm grouting height**

## 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

**V1**

**V12**



V1

V12

## TECHNICAL DATA

TYP		V1	V12
grain size	mm	0-4	0-1
grouting height	mm	20-70	50-100
amount of water	%	16	11
compressive strength (DIN 1164)	1 d N/mm <sup>2</sup>	51	51
	7 d N/mm <sup>2</sup>	78	70
	28 d N/mm <sup>2</sup>	86	81
bending strength	1 d N/mm <sup>2</sup>	6	6
	7 d N/mm <sup>2</sup>	11	8
	28 d N/mm <sup>2</sup>	12	10
expansion	Vol %	+0.6	+0.6
flowability	cm	≥ 65	-
measure of extension	cm	-	≥ 60
amount required	kg/dm <sup>3</sup>	1.90	2.0
density	kg/dm <sup>3</sup>	2.27	2.21
All test data are values derived.			

- storage:** 9 months
- packaging:** 25-kg-bags
- test certificate:** MPA
- additive:** Allgemeine bauaufsichtliche Zulassung (General Construction Permission)  
No. Z-3.21-1461
- cement types:** Supply may take place with various cement types, however, the technical characteristics will change through this. Should you have any questions, please do not hesitate to contact our advisory service



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/mm<sup>2</sup>). Prior to grouting, the surface must be wetted continuously for approx. 6 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.

All of the information, technical advice and recommendations provided in this brochure are based on comprehensive research and practical experience. However, they are – including with regard to third-party property rights – for information only and do not release customers from their responsibility to check whether the above products and procedures are suitable for their intended use. The above test data has been derived under standard climatic conditions and in accordance with DIN 50014. These values are average values and analyses, and product values may slightly differ upon delivery. Any recommendations contrary to those stated in this brochure require our written consent. The planner and processing company must always obtain information on the latest state of the art and relevant valid edition of this brochure. Please do not hesitate to contact our customer service department at any time and many thanks for your interest. This brochure makes all previously published product information null and void. Please visit our website for the latest valid version of this brochure at [www.pagel.com](http://www.pagel.com).



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