

## 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/mm<sup>2</sup>, 28 d: 86 N/mm<sup>2</sup> (20 °C)
- **low modulus of elasticity** in connection with high bending strength:  
24 h: 6 N/mm<sup>2</sup>, 28 d: 12 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
- 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

V1

V12



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
compressive strength (DIN 1164)	1 d N/mm <sup>2</sup>	51	51
	7 d N/mm <sup>2</sup>	78	70
	V12: cube 15x15 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:** 12 months dry and in closed bags

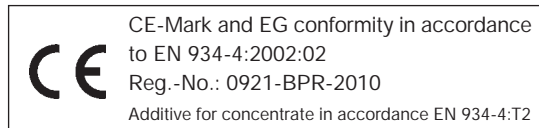
**packaging:** 25-kg-bags

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

compressive strength test:

V1 according DIN EN 196-1

V12 according DIN EN 12390-3



## 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. 6-24 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.

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