



V1® PAGEL®-GROUT



CHARACTERISTICS

- controlled and even expansion with a rigid bond between concrete foundation and machine base plate
- high early and final strength:
24 h: 52 N/mm², 28 d: 90 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
- 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 3
(0 – 1 mm) < 20 mm grouting height
 - V1 2
(0 – 8 mm) 5 – 100 mm grouting height
 - V1 2/16
(0 – 16 mm) > 100 mm grouting height

EXAMPLES 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



BW-Fixator® with PAGEL-V1®

TECHNICAL DATA

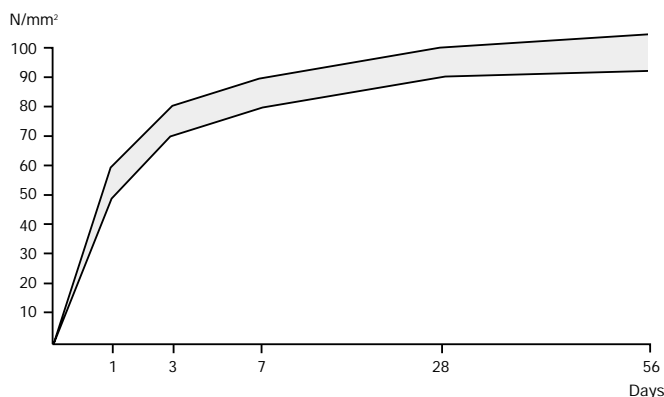
| TYPE | | V 1 | V 1 2 | |
|---|------------------------|-------------------|--------|----|
| Size | mm | 0-4 | 0-8 | |
| Grouting Height | mm | 20-70 | 50-100 | |
| Amount of water | % of | 14-16 | 10-12 | |
| Compressive Strength (DIN 1164) | | | | |
| | 24 h | N/mm ² | 52 | 50 |
| | 3 d | N/mm ² | 73 | 73 |
| | 7 d | N/mm ² | 83 | 75 |
| | 28 d | N/mm ² | 92 | 85 |
| Bending Strength | | | | |
| | 24 h | N/mm ² | 7 | 5 |
| | 3 d | N/mm ² | 9 | 6 |
| | 7 d | N/mm ² | 11 | 8 |
| | 28 d | N/mm ² | 13 | 11 |
| Expansion | Vol. % | + 0,8 | +0,6 | |
| Flowability (channel) | cm | 70 | 58 | |
| Amount required | kg per m ³ | 1900 | 2000 | |
| Density | kg per dm ³ | 2,266 | 2,205 | |

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

All named testing dates were found out when having a temperature of 20 °C.

Development of Compressive strength:



APPLICATION

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 hours till saturation

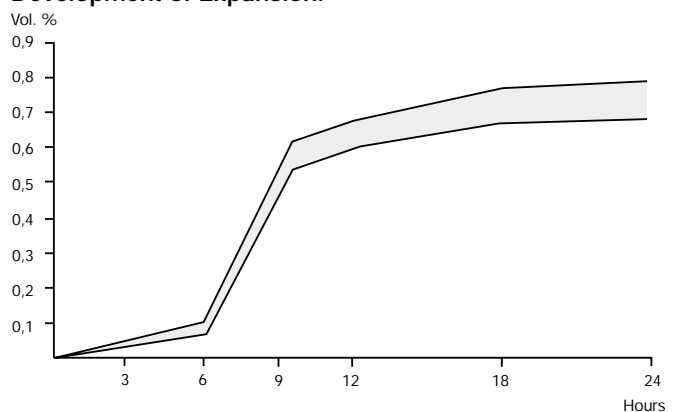
FORMWORK: Must be of rigid construction, with sand or dry mortar being placed around the concrete base carefully to prevent leakage.

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.

Development of Expansion:



Information provided in this leaflet, supplied by our applications consulting service and contained in other recommendations is based on exhaustive research work and extensive experience. It is, however, without liability on our part, in particular with regard to third parties proprietary rights, and does not relieve the user of the responsibility for verifying that the products and processes are suitable for the intended application. The given testing dates were found out when having a temperature of 20 °C and mean average values and analysis. Deviations are possible when delivery takes place. 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.



PAGEL®
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