



VI HF PAGEL®-SUPER HIGH STRENGTH GROUT

PROPERTIES

- V 1/30 HF (0 - 3mm) grout
V 1/60 HF (0 - 6mm) grout
- **cement-based and chloride-free**
- Certified to fire protection class A1 as specified by **EN 13501** and **DIN 4102**
- **single component** - mixed only with water
- **high early and final strengths**
- **controlled and even expansion** with a rigid bond between concrete foundation and machine base plate
- **pumpable** and easy to pour – even at low temperatures
- **resistant to cracks** even when having a low w/c-value
- **resistant to freeze/thaw cycles**, waterproof, resistant to oil and petrol
- **vapor diffusionable**
- **highly fatigue resistance**
- **oscillation-stabilizing**
- **Complies** with the DafStb Code of Practice (VeBMR) "Manufacture and use of cement-bound grout and mortar"
- **Externally tested** and factory quality controlled in compliance with international standards and directives. **ISO 9001** certified production

FIELDS OF APPLICATION

- **turbines**, generators, compressors, diesel engines and other power equipment operating under heavy vibration
- **wind-powered devices joints**
- **crane rails** and radio telescopes
- **high density grout** for high load supports and bearing constructions
- rail support systems, Ribbed slabs and automatic warehouse supports
- **grouting of joints and bearings** when having high-density prefabricated units
- **offshore pile / sleeve connections**

V1/30HF

V1/60HF

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

PAGEL - SUPER HIGH STRENGTH GROUT

	XO 0	XC 1 2 3 4	XD 1 2 3	XS 1 2 3	XA 1 2 3	XM 1 2 3
V1/30HF	•	••••	•••	•••	••	•
V1/60HF	•	••••	•••	•••	••	•
V1/120HF	•	••••	•••	•••	••	•



PAGEL®-SUPER-HIGH-STRENGTH-GROUT

V1/30HF

V1/60HF

TECHNICAL DATA

TYPE		V1/30HF	V1/60HF
Grain size	mm	0-3	0-6
Grouting height	mm	20-70	40-120
Amount of water	%	10	10
Consumption	kg/dm ³	app. 2.2	app. 2.2
Density of freshly mixed mortar	kg/dm ³	app. 2.4	app. 2.4
Workability having 20°C	min.	app. 45	app. 45
Flowability	5 min.	cm	> 65
	30 min.	cm	> 55
Measure of extension (channel)	5 min.	cm	> 70
	30 min.	cm	> 62
Expansion	24h	Vol. %	+ 0.5
Compressive strength*	24 h	N/mm ²	≥ 70
	3 d	N/mm ²	≥ 75
	7 d	N/mm ²	≥ 90
	28 d	N/mm ²	≥ 105
	90 d	N/mm ²	≥ 120

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

Testing temperature: 20 °C
Storage: 9 months in sealed container, dry
Packaging: 20-kg-bag

Hazard class: no dangerous substance, observe safety data sheet
GISCODE: ZP1

Classification V1/30HF according DAfStb-Rili, Manufacture and use of cementouse grout and grout mortar

Flowability class	f2
Shrinkage class	SKVM II
Early strength class	A
Compressive strength class	C80/95

Classification V1/60HF according DAfStb-Rili, Manufacture and use of cementouse grout and grout mortar

Expansion class	a3
Shrinkage class	SKVB I
Early strength class	A
Compressive strength class	C90/105

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 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.

PROCESSING: 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. On machine installations fill the anchor bolt pockets first (up to approximately top of anchor bolt pockets) and then the underside of the machine.

CAUTION: Open areas must be protected as fast as possible, latest after hardening of the surface, against wind, draught and premature evaporation by using for example plastic foil or using a fog nozzle. In case of temperatures below 5 °C, please contact us. low temperature working conditions retard the strength development and reduce the flowability while high temperatures accelerate the same; low temperatured water obstructs the fluidity.

www.superbeton.su
(495) 648-52-04

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.



PAGEL®
SPEZIAL-BETON GMBH & CO.KG

WOLFSBANKRING 9 · D-45355 ESSEN
TEL. +49 (0)2 01-6 85 04-0 · FAX +49 (0)2 01-6 85 04-31
INTERNET: WWW.PAGEL.COM · E-MAIL: INFO@PAGEL.COM