

PAGEL®-RAPID SET GROUT

PROPERTIES

- **Extremely early, high-strength and shrinkage-free grout and assembly mortar** – cement based
- Achieves high compressive strength (725 PSI at 676°F) after as little as 30 minutes
- **Free flowing** and universally suitable for assembly grouting and repairs
- **Non-shrink**, forms solid bond, excellent surface adhesion
- **Water-impermeable**, largely impermeable to oil, frost and road-salt resistant
- **Easy to use**, only requires the addition of water and has a working time of 10 minutes.
- Certified to fire protection class A1 as specified by **EN13501** and **DIN 4102**
- Extremely cost effective and economical thanks to cutting assembly times and road “down times” when used in road construction and repair
- Produced subject to strict internal quality control measures
- Produced in **compliance** with all relevant applicable standards and directives; certified to **ISO 9001**
- The PAGEL RAPID SET GROUT series comprising:
 - VB10 Grain size 0-0.04 mm
 - VB40 Grain size 0-0.04 mm
 - VB-P10 plasticized

FIELDS OF APPLICATION

- Sewer rehabilitation
- For sealing domestic installation pipes
- Pipe feedthroughs for installation lines
- Grouting columns and pre-fabricated parts
- **Repairing** minor damage on concrete, kerbstones, steps
- Grouting domestic installation pipes
- Grouting rail anchors

VB-P10 PAGEL RAPID SET GROUT plasticize

- Bearing of manhole rings
- maintenance of manholes
- repair works in channels
- outbreaks, re-profiling of edges

Exposition category according to:
DIN 1045-2 / EN 206-1

PAGEL - RAPID SET GROUT

	XO	XC	XD	XS	XF	XA	XM
	0	1 2 3 4	1 2 3	1 2 3	1 2 3 4	1 2 3	1 2 3
VB10	•	••••	••	••••	•••	••	•
VB40	•	••••	••	••••	•••	••	•
VB-P10	•	••••	••	••••	•••	••	•

VB10

VB40

PLASTISIZE MORTAR
VB-P10



PAGEL®-RAPID SET GROUT

VB10

VB40

PLASTISIZE MORTAR
VB-P10

TECHNICAL DATA

TYPE			VB10	VB40	VB-P10
Grain Size	inch		0-0.04	0-0.16	0-0.04
Grouting height	inch		0.39-1.97	1.18-2.36	0.39-1.97
Amount of water	app. %		14	13	14
Consumption	lbs/ft ³		112.37	118.62	112.37
Working time 20°C	app. min.		10	10	8
Slump	inch		> 11.81	> 11.81	6.30
Volume assessment	%		+ 0.4	+ 0.4	+ 0.4
Density of freshly mixed grout	lbs/ft ³		133.60	137.35	131.1
Compressive strength Prism 40x40x160 mm	30 min	PSI	≥ 725	≥ 725	≥ 725
	1 h	PSI	≥ 1,160	≥ 1,160	≥ 1,160
	2 h	PSI	≥ 1,450	≥ 1,450	≥ 1,450
	4 h	PSI	≥ 1,740	≥ 1,740	≥ 1,740
	24 h	PSI	≥ 5,800	≥ 5,800	≥ 5,075
	7 d	PSI	≥ 7,975	≥ 7,975	≥ 5,800
	28 d	PSI	≥ 9,425	≥ 9,425	≥ 7,975
Bending strength	30 min	PSI	≥ 290	≥ 290	≥ 145
	1 h	PSI	≥ 290	≥ 290	≥ 290
	2 h	PSI	≥ 435	≥ 435	≥ 290
	4 h	PSI	≥ 435	≥ 435	≥ 362.5
	24 h	PSI	≥ 725	≥ 1,015	≥ 725
	7 d	PSI	≥ 1,160	≥ 1,160	≥ 1,160
	28 d	PSI	≥ 1,450	≥ 1,450	≥ 1,450

All test data are guide values only.

Storage: Max. 6 months, in dry and sealed bags

Packaging: 25 kg bag

Hazard class: Non-Hazardous, observe safety data sheet

GISCODE: ZP1

Low chromate, compliant with TRGS 613

APPLICATION

SURFACE: Clean thoroughly; remove all loose and unsound material, as well as any substances that might prevent the grout from adhering to the surface until carrying capacity of (concrete) substrate has been reached (average tear strength of 217.5 PSI). Wet the substrate for app. 6 hours before grouting until saturated. Make sure the substrate is not subsequently covered with a continuous film of water. The substrate should only be slightly damp when applying the grout.

FORMWORK: Must be of rigid construction; carefully seal around concrete base using sand or dry mortar.

MIXING: The mortar is supplied ready for use and only needs to be mixed with water. Add all of the water, with the exception of a small residual amount, into the compulsory mixer. Add the dry mortar and mix for app. 2 minutes. Add the remaining water and mix for another minute. Pour immediately after mixing.

GROUTING: The mixture should be poured from one side or corner only in one continuous pour. When grouting large areas, we recommend pouring the

grout starting at the centre of the base using a hopper and a corresponding hose. Check working time. The (concrete) substrate must be free from frost.

CAUTION: Exposed areas and protruding grout (protrusions/edges) must be immediately protected against wind, drafts and premature water evaporation using, e.g. foil or O1 PAGEL EVAPORATION PROTECTION.

Please refer to and observe the additional specifications listed on the O1 PAGEL EVAPORATION PROTECTION technical data sheet if the grout will be exposed to extremely high or low temperatures, direct sunlight or wind.

Temperatures: Can be applied at temperatures between 169 and 845°F, low temperatures and cold mixing water will reduce flowability and delay strength development, while high temperatures will accelerate them. Please contact us for further information on how to use this product in frost.

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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