

PAGEL®-PRE-MIXED-GROUT

PROPERTIES

- **non shrink high viscosity mortar**, cement based
- controlled and even expansion with a rigid bond between concrete foundation and machine base plate
- high **early and final strength**
- has a **plastic consistency** and its density provides **resistance to freeze / thaw-cycles**, impervious to water and resistant to oil and chemicals
- is free of chloride and contains no alumina cement or other additives which may cause corrosion
- **easy to pour**, need only be mixed with water
- is **ready for use** with a working time of approx. 45 minutes at 68 °F, can be pumped and placed very easily
- **company is certified according DIN EN ISO 9001:2015**
- **V14** consists of the following products:
 - V14/10** (0–0.04 inch) placing height 0.39–1.18 inch
 - V14/40** (0–0.16 inch) placing height 0.39–2.76 inch
 - V14/80** (0–0.31 inch) placing height 1.97–3.94 inch
- Pagel's Factory Production Control (FPC) complies with the DafStb Directive on the "Manufacture and use of cementitious concrete and grout"

FILES OF APPLICATION

- **placing under machine base plates, bridge bearings, fixator levelling units and pre-fabricated parts**
- **repair** on wall and floor treads, concrete outbreaks
- **filling** of pre-fabricated part-joints

V14/10

V14/40

V14/80

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

PAGEL – PRE-MIXED-GROUT

	XO 0	XC 1 2 3 4	XD 1 2 3	XS 1 2 3	XF 1 2 3 4	XA 1 2 3	XM 1 2 3
V14/10	•	••••	•••	•••	••••	••	•
V14/40	•	••••	•••	•••	••••	••	•
V14/80	•	••••	•••	•••	••••	••	•



Moisture class based on concrete corrosion from alkali silicic acid reactions				
moisture class	WO	WF	WA	WS
	dry	wet	wet • external supply of alkalis	wet • external supply of alkalis • subject to high levels of dynamic stress
V14	•	•	•	•

The aggregates in PAGEL's products comply with the requirements of alkali sensitivity class E1 from non-hazardous sources specified under DIN EN 12620.

CE 0921		CE 0921		CE 0921	
PAGEL SPEZIAL-BETON GMBH & CO.KG Wolfsbankring 9 46356 Essen, Germany 10 140001 EN 1504-6:2006 V14/10 PAGEL Pre-mixed grout Anchoring product		PAGEL SPEZIAL-BETON GMBH & CO.KG Wolfsbankring 9 46356 Essen, Germany 10 140004 EN 1504-6:2006 V14/40 PAGEL Pre-mixed grout Anchoring product		PAGEL SPEZIAL-BETON GMBH & CO.KG Wolfsbankring 9 46356 Essen, Germany 10 140008 EN 1504-6:2006 V14/80 PAGEL Pre-mixed grout Anchoring product	
Pull-out	≤ 0.6 mm	Pull-out	≤ 0.6 mm	Pull-out	≤ 0.6 mm
Chloride ion content	≤ 0.05 %	Chloride ion content	≤ 0.05 %	Chloride ion content	≤ 0.05 %
Reaction to fire	A1	Reaction to fire	A1	Reaction to fire	A1

V14/10

V14/40

V14/80

TECHNICAL DATA

TYPE			V14/10	V14/40	V14/80
grain size	inch		0-0.04	0-0.16	0-0.31
grouting height	inch		0.39-1.18	0.39-2.76	1.97-3.94
quantity of water	max. %		10-12	10-12	9-10
consumption (dry-mortar)	approx. lbs/ft ³		124.86	124.86	131.10
density of freshly mixed mortar	approx. lbs/ft ³		137.34	140.46	143.58
processing time	at 68 °F	min.	approx. 45	approx. 45	approx. 45
expansion	24 h	Vol. %	+ 0.5	+ 0.5	+ 0.5
compressive strength*	24 h	PSI	≥ 6,525	≥ 6,525	≥ 5,800
	7 d	PSI	≥ 10,150	≥ 10,150	≥ 8,700
	28 d	PSI	≥ 10,875	≥ 10,875	≥ 10,150
	90 d	PSI	≥ 12,325	≥ 12,325	≥ 11,600
bending strength	24 h	PSI	≥ 725	≥ 725	-
	7 d	PSI	≥ 1,160	≥ 1,160	-
	28 d	PSI	≥ 1,305	≥ 1,305	-
	90 d	PSI	≥ 1,595	≥ 1,595	-
e-modul	7 d	PSI	3,625,000	3,625,000	3,625,000
	28 d	PSI	4,350,000	4,350,000	4,350,000

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

supplied in: 25-kg-bag, euro-pallet 1,000 kg
storage: 12 months. Cool, dry, free from frost. Unopened in its original packaging.
hazard class: no dangerous substance follow safety data sheet.
giscode: ZP1

PAGEL-GROUT

cement: DIN EN 197-1 compliant
aggregates: EN 12620 compliant
additives: EN 450, AbZ, EN13263 compliant (quick ash, microsilica etc.)
additional substances: DIN EN 934-4 compliant

PROCESSING

SUBSTANCE: Clean thoroughly. Remove loose and adhesion-restricting parts and cement sludge by using high-pressure water jets, or other equipment, down to the load-bearing grain structure. Approximately 6 hours before grouting pre-wet to 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-to-use it only has to be mixed with water. Pour water into the forced mixer except for a residual quantity, add dry mortar and mix for approx. 3 minutes; add rest of the water and mix for a further 2 minutes. With other types of mixer allow longer mixing periods if required. The grouting process should proceed directly.

APPLICATION: Place carefully in one continuous pour. For repair work use **V14/10** as a primer in form of a slurry. Brush the slurry into the concrete surface and apply the mortar before the surface dries out.

Processing time: approx. 30 min. (at 86 °F)
 approx. 45 min. (at 68 °F)
 approx. 90 min. (at 41 °F)

NOTE: Open surfaces are to be protected against wind, draughts and premature water evaporation e.g. with plastic foil or **O1 PAGEL-SURFACE PROTECTION**. The edge of the grouting should not be wider than approx. 1.97 inch. In case of frost, please contact us; lower temperatures delay the development of strength and do reduce flow ability, higher temperatures accelerate the same.

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 · 45355 ESSEN · GERMANY
 TEL. +49 201 68504-0 · FAX +49 201 68504-31
 INTERNET WWW.PAGEL.COM · E-MAIL INFO@PAGEL.COM