



PAGEL-FAST SETTING REPAIR-MORTAR

PROPERTIES

- is the permanent solution for quick **repair work** for concrete and mortar surfaces
- can be loaded after 2 hours (and develops high early and final compressive strengths – it is chloride and alumina free
- is cost effective by reducing closure times on concrete roads and pavements
- has good workability, high adhesive strength to cement based substrates and is highly
- resistant to abrasion
- is resistant to frost and dew-salt, waterimpermeable, largely impervious to oil
- by modifying the water ratio a plastic to stiff consistency may be obtained – it is also supplied with steel fibre, basalt sand and various sizes of aggregate for different height applications
- is pre-mixed, only the addition of water for site use is necessary – no other primer systems are required

FIELDS OF APPLICATION

- **patching** concrete, screeding and plaster or stucco repairing holes, corners and cracks
- grouting masonry, floor and butt joints laying materials (bricks, slabs, tiles etc.)
- **applying** binder layers and sprayed concrete
- **joining** prefabricated concrete components, old and new concrete
- **sealing** against water ingress by plastering, repairing and slurry sealing

Exposition category according to: DIN 1045-2 / EN 206-1 PAGEL – RAPID REPAIR MORTAR

	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
R20/02	•	• • • •	• •		• •	•	•
R20/05	•	• • • •	• • •	• • •	• • •	•	•
R20/20	•	• • • •	• • •	• • •	• • •	• •	•
R20/40	•	• • • •	• • •	• • •	• • •	• •	•
R20/80	•	• • • •	• • •	• • •	• • •	• •	•

R20/02^y R20/05^y

- R20/20
- R20/40

R20/80





PAGEL-FAST SETTING REPAIR-MORTAR

R20/02^y R20/05^y R20/20^y

R20/40

R20/80

TECHNICAL DATA

TYPE			R20/02	R20/05	R20/20	R20/40	R20/80
grain size		inch	0-0.01	0–0.02	0-0.08	0–0.16	0–0.31
coating thickness		inch	0.02-0.2	0.08-0.24	0.2–1.57	0.79–1.97	1.18–3.94
amount of water		%	max. 18	14–16	11–12	11–12	11–12
consumption		lbs/ft ³	118.62	112.37	124.86	124.86	124.86
density of freshly mixed morta		lbs/ft ³	134.22	131.10	139.22	137.35	139.22
compressive strength*	2 h	PSI	≥725	≥725	≥725	≥725	≥725
	4 h	PSI	≥870	≥1,450	≥1,450	≥1,450	≥1,450
	8 h	PSI	≥1,450	≥1,885	≥2,175	≥2,175	≥2,175
	1 d	PSI	≥2,175	≥2,900	≥3,625	≥3,625	≥3,625
	7 d	PSI	≥4,350	≥5,800	≥5,800	≥6,525	≥5,800
	28 d	PSI	≥7,250	≥7,250	≥7,975	≥7,975	≥7,975
adhesive strength	28 d	PSI	≥290	≥290	≥290	≥290	≥290
		All test data are guide values only.					

DIN EN 196-1-compliant compressive strength testing DIN EN 12390-3-compliant compressive strength testing

working time:approx. 15 min. (676 °F)amount required:approx. 2000 kg per m³ or 2 kg per lsupplied in:25-kg-bags

storage: shelf-life:

dry 6 months in sealed bags

PROCESSING

SUBSTRATE: Concrete surfaces have to be cleaned and must be free of loose and unsound material, dust, oil, grease etc. – also of residual corrosion. If necessary the surface can be cleaned by scabbling or sandblasting. The repair area must then be wetted with water until surface saturation ist reached.

MIXING: Depending on consistency required, measure out most of the total water requirement and place in mixer. Add R20 pre-mixed mortar to rotating mixer and allow to mix for short period. Add remainder of the water and allow to mix for a further 5 minutes.

ADHESION PRIMER: After cleaning, coat any exposed reinforcing steel with R20/20 or R20/10 corrosion protection or EH3 EPOXY RESIN (two coats sprinkled with quartz sand). Make up R20 or R20/10 as a slurry using the maximum water volume specified; brush this slurry thoroughly into the surface.

PROCESSING: Apply the mortar in the desired consistency, and before the adhesion primer dries out spread, compact and smooth the material. Keep all tools wet.

CAUTION: Protect exposed surfaces against wind, draughts and premature water evaporation e.g. with film or **O1 PAGEL-SURFACE-PROTECTION**

CE								
0921								
PAGEL® SPEZIAL-BETON GmbH & Co. KG, D-45355 Essen								
find the printed batch number								
0921 – BPR – 2034								
EN 1504-3:2005								
R20 PAGEL [®] - RAPID REPAIR MORTAR								
Mortar for statically and not statically relevant repairs (on the basis of hydraulic cement)								
Product name:	R20/02	R20/05	R20/10 R20/20	R20/40	R20/80			
Class:	R3		R4					
Compressive strength:	≥ 25 MPa		≥ 45 MPa					
Chloridion content:	≤ 0.05 %		≤ 0.05 %					
Adhesion:	≥ 1.5 MPa		≥ 2.0 MPa					
Prevented shrinkage/swelling:	≥ 1.5 MPa		≥ 2.0 MPa					
Resistance to carbonation:	NPD		NPD					
Modulus of elasticity:	≥ 15 GPa		≥ 20 GPa					
Temperature variation tolerance:	NPD							
Grip:	NPD							
Thermal expansion coefficient:	NPD							
Capillary water absorption:	NPD							
Reaction to fire:	Class A1							
Hazardous Substance:	In accordance with EN 1504-3:2005, 5.4							

NPD: "No Performance Determined"

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TÜV

EN 190 9001-0

PAGEL'-USA

4282 SHORELINE DRIVE · SPRING PARK MINNESOTA 55384 · USA OFFICE 001 952 942 6105 · FAX 001 952 942 6108 WWW.PAGEL-USA.COM · SALES@PAGEL-USA.COM