PAGEL®

PAGEL®-READY-FOR-USE-MORTAR

DRINKING WATER SECTOR

TW05 US

TW10 US

TW20 US

TW40 US

PROPERTIES

- **ready for use mortar** on cement basis
- in respect of water behaviour meets the demands on container materials specified in the "Plastic Drinking Water Recommendations" of the Bundesgesundheitsamt (Federal Health Service)
- corresponds to **Working Sheets W 270 and W347 from DVGW** and is also suitable for use in the drinking water sector in a microbiological respect as well
- promotes neither microbial growth nor does it have any bactericidal or fungicidal properties
- **economical,** problem-free and time-saving
- can be used on **vertical and horizontal surfaces** and can also be coated by the **wet and dry spraying processes**
- reduces the penetration of $C0_2$, checks corrosion, is capable of vapor diffusion and is resistant to frost and dew-salt
- is mixed only with water – for coatings TW10 PAGEL-READY-FOR-USE-MORTAR is brushed in as **adhesion bridge**
- is subject to our own **constant controlling** in accordance with the recognized standards and guidelines. The production is certified in accordance with **ISO 9001.**
- The TW40-series consists of the following products:

TW05	0–0.02 inch (primer)
TW10	0–0.04 inch (adhesion layer + fine mortar)
TW20	0–0.08 inch (spray mortar)
TW40	0–0.16 inch (mortar)

CE				
0921				
PAGEL® SPEZIAL-BETON GmbH & Co. KG, D-45355 Essen				
find the printed batch number				
0921 – BPR – 2034				
EN 1504-3:2005				
TW PAGEL® - READY-FOR-USE-MORTAR Mortar for statically and not statically relevant repairs (on the basis of hydraulic cement)				
Product name:	TW05	TW10	TW20	TW40
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	requirements passed		
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 A 1			
Hazardous Substance:	In accordance with EN 1504-3:2005, 5.4			

NPD: „No Performance Determined"

FIELDS OF APPLICATION

- **coating** of wall and floor areas in the drinking water sector
- **repair** of concrete, plaster and composites
- **drinking water containers,** pipes, purification plant

Assigning to expositioncategory according to:
DIN 1045-2 / EN 206-1 / ZTV-W219
PAGEL – READY-FOR-USE-MORTAR

	XO 1	XC 1 2 3	XD 1 2 3	XS 1 2 3	XF 1 2 3 4	XA 1 2 3	XM 1 2 3
TW05	•	• • •	•	•	•	•	•
TW10	•	• • •	• • •	• • •	• • •	• •	•
TW20	•	• • •	• • •	• • •	• • •	• •	•
TW40	•	• • •	• • •	• • •	• • •	• •	•

TW05-TW40

CE
0921
PAGEL Spezial-Beton Wolfsbankring 9 45355 Essen
find the printed batch number
0921-BPR-2034
EN 1504-3

TW40

CE
PAGEL Spezial-Beton Wolfsbankring 9 45355 Essen
find the printed batch number
CT C70 F7 A12
cement based screed for applications having inside and outside sections
EN 13813

TW 05 US

TW 10 US

TW 20 US

TW 40 US

TECHNICAL DATA

TYPE			TW 05	TW 10	TW 20	TW 40
fields of application			screeding compound	adhesion-layer	spray-mortar	mortar
coating thickness		inch	0.08–0.24	0.2–0.39	0.39–1.18	0.79–1.57
grain size		inch	0–0.02	0–0.04	0–0.08	0–0.16
amount of water		%	14–16	11–13	10–12	10–12
density of freshly mixed mortar		lbs/ft³	136.1	136.1	134.22	134.22
compressive strength*	24 h	PSI	≥ 2,175	≥ 3,625	≥ 3,625	≥ 3,625
	7 d	PSI	≥ 5,075	≥ 6,525	≥ 6,525	≥ 6,525
	28 d	PSI	≥ 6,525	≥ 7,975	≥ 7,975	≥ 8,700
abrasion strength	7 d	PSI	≥ 217.5	≥ 290	≥ 290	≥ 290
E-Modul (static)	56 d	PSI	–	–	–	4,785,000
consumption		lbs/ft³	106.13	112.37	115.5	115.5

All test data are values derived under normal climate conditions. 23/50-2

* DIN EN 196-1-compliant compressive strength testing

supplied in: 25-kg-bags
storage: dry
shelf-life: 9 months in sealed bags
hazard class: no dangerous substance
follow safety data sheet

types of Cement: Other types of cement can also be supplied although the technical properties are changed as a result. If you have any queries, please get in touch with our Customer Services.

PROCESSING

SUBSTRATE: Thoroughly clean, remove loose and ahesion-checking parts as well as cement slurry by high-pressure-water blasting or such like down to the loadbearing grain structure, sufficient abrasion resistance must be guaranteed (mean > 217.5 PSI). Pre-wet to saturation. Remove rust from exposed concrete steel and coat without gaps with TW 05 PAGEL-SCREEDING COMPOUND as corrosion protection.

MIXING: Apart from a residual quantity, pour water into the forced-circulation mixer. Add dry mortar and mix for approx. 3 minutes. Add the rest of the water and mix for a further 2 minutes.

ADHESION BRIDGE: Mix TW 10 PAGEL-READY-TO-USE-MORTAR as adhesion bridge in small quantities with a maximum 13 % water as slurry and brush into the substrate pore-deep. When using the spray process, no adhesion bridge of all TW mortars is required.

PROCESSING: Apply TW 40 in plastic consistency in the not yet set adhesion primer, disperse and smooth. If using the spray process, seek special technical advice if requird.

CAUTION: Protect surfaces against wind, draughts and premature water evaporation e.g. with film.

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

Technical Ref. Sheet **0901 US**
QS-Formblatt 03/10 Rev. 08