

PAGEL-READY-FOR-**USE-MORTAR DRINKING WATER SECTOR**

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 CO₂, 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 TW4O-series consists of the following products:

TW05 0-0.5 mm (primer)

0-1.0 mm (adhesion layer + fine TW10

mortar)

0-2.0 mm TW20 (spray mortar) **TW40** 0-4.0 mm (mortar)

Q C 0921 PAGEL® SPEZIAL-BETON GmbH & Co. KG, D-45355 Essen find the printed batch number TW10 and TW40 EN 13813 CT C60 F10 A9						
TW20 EN 13813 CT C60 F7 A9 U10, U20, U40, U80, U160 PAGEL-UNIVERSAL MORTAR Cement based screed						
Product name	TW10 TW20 TW40					
Reaction to fire	Afl					
Compressive strength	C60 C50 C60					
Bending strength	F10 F7 F10					
Release of corrosive substances	CT					
Water permeability	NPD					
Wear resistance	A9					
Sound insulation	NPD					
Sound absorption	NPD					
Thermal insulation	NPD					
Resistance to chemicals	NPD					
NDD: No Porformance 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

TW05

TW10

TW20

TW40

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

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



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PAGEL-READY-FOR-USE-MORTAR

TW05

TW10

TW20

TW40

TECHNICAL DATA						
TYPE			TW05	TW10	TW20	TW40
fields of application			screeding compound	adhesion- layer	spray- mortar	mortar
coating thickness		mm	2–6	5–10	10–30	20-40
grain size		mm	0-0.5	0–1.0	0–2.0	0-4.0
amount of water		%	14–16	11–13	11–13	10–12
density of freshly mixed	d mortar	kg/dm³	2.18	2.18	2.15	2.15
compressive strength*	24 h	N/mm²	≥15	≥ 25	≥ 25	≥ 25
	7 d	N/mm²	≥ 35	≥45	≥45	≥ 45
	28 d	N/mm²	≥ 45	≥55	≥55	≥60
abrasion strength	7 d	N/mm²	≥1.5	≥ 2.0	≥2.0	≥2.0
E-Modul (static)	56 d	N/mm²	≥15.000	≥ 20.000	≥ 20.000	≥ 20.000
consumption		kg/dm³	1.7	1.8	1.85	1.85

All test data are guide values, proofed in our German manufacturing plants, - values from other manufacturing plants may vary.

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 > 1.5 N/mm²). Pre-wet to saturation. Remove rust from exposed concrete steel and coat without gaps with TWO5 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 TW10 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 TW40 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.

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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"						

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DIN EN 196-1-compliant compressive strength testing