PAGEL®

U 4 0

PAGEL®-UNIVERSAL MORTAR

PROPERTIES

- **ready to use mortar on cement basis**
- excellently suitable for the processing of **vertical** and **over-the-head-surfaces,** and of a **horizontal** substrate
- **can be sprayed,** particularly easy to process and **high stability and adhesion**
- meets the conditions of **Building Substance Class A1 (Non-Combustible)**
- the preparation liquid consists only of water, no additional dispersion liquid is necessary
- can also be supplied with plastic fibres or steel fibres
- **capable of vapour diffusion** and resistant to frost and dew-salt
- **resists the penetration of CO_2** and moisture (carbonisation), at the same time checks corrosion and is to a high degree resistant to saponification
- corresponds with the guidelines of DafSt for a M2 and M3 mortar.
- is subject to our own **constant controlling** in accordance with the recognized standards and guidelines. The production is certified in accordance with **ISO 9001.**
- U 4 0 is supplemented by the following products:

U 0 5	PAGEL-STOPPER (0–0.5 mm)
U 1 0	PAGEL-FINE MORTAR/ ADHESION BRIDGE (0–1.0 mm)
U 8 0	PAGEL-REPAIR MORTAR (0–8.0 mm)

FIELDS OF APPLICATION

- **coating** of wall, floor, facade and ceiling surfaces etc.
- **industrial floors**
- **concrete maintenance**
- **laying** of building materials (tiles, plates and bricks etc.)
- **repair** of holes, edges and cracks
- **jointing** of masonry, floor and expansion joints

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TECHNICAL DATES

TYPE			U 0 5	U 1 0	U 4 0	U 8 0
granulation		mm	0–0.5	0–1	0–4	0–8
coating thickness		mm	up to 6	5–10	10–30	30–80
quantity of water		%	16–17	13–14	12–13	11–12
consumption		kg/dm³	1,9	2,0	2,0	2,1
fresh mortar coarse density		kg/dm³	1.98	2.08	2.12	2.13
processing time	at 20 °C	Min.	60	60	60	60
compressive strength	after 24 h	N/mm²	16	26	35	31
	after 3 d	N/mm²	27	40	40	35
	after 7 d	N/mm²	37	52	60	58
	after 28 d	N/mm²	50	65	72	65
bending strength	after 24 h	N/mm²	3	4	5	5
	after 3 d	N/mm²	4	5	6	6
	after 7 d	N/mm²	5	7	8	7
	after 28 d	N/mm²	6	8	9	9
abrasion strength		N/mm²	2,8	2,7	2,7	2,6
modulus of elasticity (Static)	after 28 d	N/mm²				approx. 32.600

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

supplied in: 25 kg sack
storage: dry and frost-free
shelf-life: 9 month in closed sacks
hazard class: Not 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: Carefully clean, remove loose and adhesion-reducing parts as well as cement slurry by high-pressure-water blasting or such like down to the load-bearing 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 M S 0 2 PAGEL-CORROSION PROTECTION or with E H 3 PAGEL-EPOXIDE RESIN.

MIXING: Apart from a residual quantity, pour the 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: Stir U 1 0 with the maximum specified quantity of water as slurry and brush into the substrate to the depth of the pores. No adhesion bridge is necessary when the spray process is used. In the event of highly variable absorption properties of the substrate we recommend the use of E H 1 PAGEL-EPOXY RESIN adhesion bridge.

PROCESSING: Introduce U N I V E R S A L MORTAR at plastic consistency into the not yet set adhesion bridge, distribute it and smooth it. For application by the spray process, ask for special technical advice if this is required. Take account of expansion joints.

AFTER-TREATMENT: Protect surface from wind, draughts and premature water evaporation e. g. with film, O 1 PAGEL-EVAPORATION PROTECTION or E H 1 3 6 PAGEL-SURFACE PROTECTION in the wall area.

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