

## PAGEL®-UNIVERSAL MORTAR

### PROPERTIES

- **ready to use cement base mortar** / chloride-free
- 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)**
- single component - mixed only with water
- can also be supplied with plastic fibres or steel fibres
- **capable of vapor diffusion** and resistant to frost and dew-salt
- **resists the penetration of CO<sub>2</sub>** and moisture (carbonisation), at the same time checks corrosion and is to a high degree resistant to saponification
- 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 **U40**-series consists of the following products:

**U10 PAGEL-FINE MORTAR/ ADHESION BRIDGE**  
(0-1/32")

**U40 PAGEL-REPAIR MORTAR**  
(0-1/8")

**U80 PAGEL-REPAIR MORTAR**  
(0-3/8")

### 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

**U10**<sub>01C</sub>

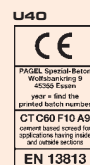
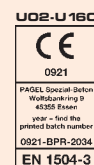
**U40**<sub>01C</sub>

**U80**<sub>01C</sub>

### U40

#### Test Results-ASTM C-109 Compressive strength (PSI)

1 d	7 d	28 d
5,220	9,280	12,180



# PAGEL®-UNIVERSAL MORTAR

**U10<sub>ES</sub>**

**U40<sub>ES</sub>**

**U80<sub>ES</sub>**

## TECHNICAL DATA

TYPE			<b>U10</b>	<b>U40</b>	<b>U80</b>
<b>aggregate size</b>	inch/mm		0-1/32" / 0-1	0-1/8" / 0-4	0-3/8" / 0-8
<b>coating thickness</b>	inch/mm		3/16-3/8" / 5-10	3/8-1 1/2" / 10-40	1 1/4-3" / 30-80
<b>amount of water</b>	%		11-13	11-12	11-12
<b>consumption</b>	lbs/ft <sup>3</sup>		124.86	124.86	131.1
<b>fresh mortar coarse density</b>	lbs/ft <sup>3</sup>		129.85	134.85	126.73
<b>working time</b>	at 676 °F	min.	60	60	60
<b>compressive strength*</b>	after 24 h	PSI (MPA)	≥ 6,235 (43)	≥ 5,220 (36)	≥ 4,495 (31)
	after 7 d	PSI (MPA)	≥ 9,425 (65)	≥ 9,280 (64)	≥ 8,265 (57)
	after 28 d	PSI (MPA)	≥ 12,325 (85)	≥ 12,180 (84)	≥ 9,280 (64)
<b>bending strength</b>	after 24 h	PSI (MPA)	≥ 435 (3)	≥ 580 (4)	-
	after 7 d	PSI (MPA)	≥ 870 (6)	≥ 870 (6)	-
	after 28 d	PSI (MPA)	≥ 1,015 (7)	≥ 1,160 (8)	-
<b>abrasion strength</b>	after 7 d	PSI (MPA)	≥ 290 (2)	≥ 290 (2)	≥ 290 (2)

All test data are values laboratory conditions. Compressive strength testing per ASTM-C109.

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

**supplied in:** 25 kg / 55 lbs bag  
**storage:** dry and frost-free  
**shelf-life:** 12 month in closed bags  
**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 questions, please call our Customer Service.

## PROCESSING

**SUBSTRATE:** Carefully clean, remove loose and adhesion-reducing parts as well as cement slurry by high-pressure-water blasting or similar down to the load-bearing grain structure; sufficient abrasion resistance must be guaranteed (mean  $\geq$  217.5 PSI). Pre-wet to saturation. Remove rust from exposed concrete steel and coat without gaps with **MS02 PAGEL-CORROSION PROTECTION** or with **EH3 PAGEL-EPOXIDE RESIN**.

**MIXING:** Pour 2/3 of the water into the forced-circulation mixer. Add dry mortar and mix for approx. 3 minutes. Add the remaining water and mix for an additional 2 minutes.

**ADHESION BRIDGE:** Stir **U10** 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 **EH1 PAGEL-EPOXY RESIN** adhesion bridge.

**PROCESSING:** Place **UNIVERSAL 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, **O1 PAGEL-EVAPORATION PROTECTION** or **EH136 PAGEL-SURFACE PROTECTION** in the wall area.

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