

PAGEL®



R20/20 PAGEL®- FAST SETTING REPAIR-MOTAR

- ▶ THE MORTAR FOR ALL FOUR SEASONS
- ▶ ONE PRODUCT ONE SYSTEM
- ▶ WORKABLE AS FROM 1 °C
- ▶ TO BE LOADED AFTER TWO HOURS AS FROM 2 °C
- ▶ FOR WALL AND SURFACE AREAS
- ▶ WITH CONCRETE PROTECTION PAINT AS FROM 2 °C

PAGEL®

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... wir machen guten Mörtel – weltweit!

PROPERTIES

- is the permanent solution for quick repair work
- workable as from 1 °C
- can be loaded after 2 hours as from 5 °C
- ready-for-use, good workability
- synthetic-tempered slows down corrosion
- free of chlorides and alumina cement
- resistant to frost and dew-salt
- remaining density after 3 days < 3 %
- after 8 hours resistant to frost (5 °C)

APPLICATION

- quick repairs
- concrete- and mortar surfaces
- floor and wall areas
- industrial halls, ramps, garages
- concrete repairing
- renewal of profiles
- patching concrete, holes, edges

PRODUCTS

- R20/20-SYSTEM
- R20/05 CORROSION PROTECTION AND SCREEDING COMPOUND
- O2C CONCRETE PROTECTION SYSTEM
+ O2C-WA (winter additive)
as from 2 °C

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 is reached.

ADHESION PRIMER

After cleaning, coat any exposed reinforcing steel with R20 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.

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.

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.

CURING

Protect exposed surfaces against wind, draughts and premature water evaporation e.g. with film or O1 CURING MEMBRANE.



R20/20
repair of
concrete surfaces



R20/20
repair of
industrial halls, ramps



R20/20
repair of
balkonies



R20/05
screeding compound

R20/20 PAGEL®-FAST SETTING REPAIR-MOTAR

TECHNICAL DATA

R 20/20

R 20/05

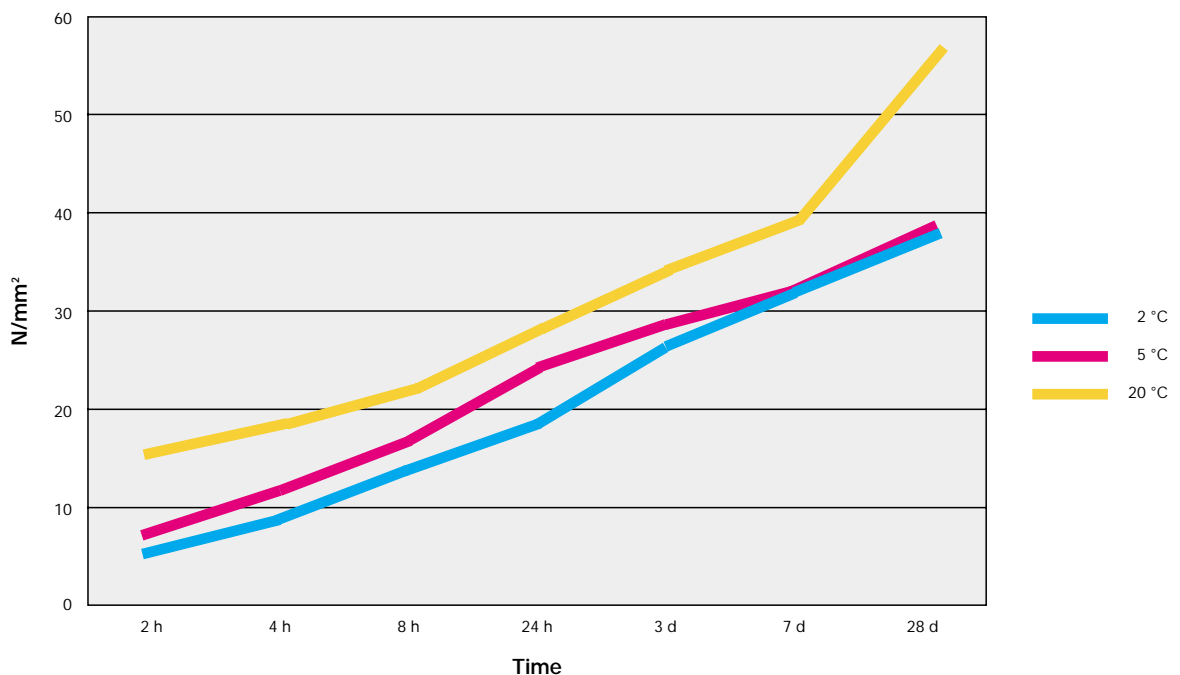
Granulation	mm	0 – 2	0 – 0,5
Coating thickness	mm	5 – 50	1 – 6
Quantity of water	%	11 – 13	14 – 16
Consumption per 10 mm sickness	kg/m ²	20	18
Fresh mortar gross density	kg/dm ³	2,19	2,08

		TEMPERATURE			TEMPERATURE		
		2 °C	5 °C	20 °C	2 °C	5 °C	20 °C
Compressive strength	2 h N/mm ²	6	8	15	2	5	9
	4 h N/mm ²	9	11	18	3	9	11
	8 h N/mm ²	13	15	21	5	10	13
	24 h N/mm ²	18	23	28	8	12	16
	3 d N/mm ²	26	28	34	20	24	28
	7 d N/mm ²	31	31	39	28	30	43
	28 d N/mm ²	48	48	54	40	45	56
Adhesive strength	28 d N/mm ²	> 2,0			> 2,0		

To find out the compressive strengths dry mortar, water and forms for prisms were cooled down to the respective testing temperature.

- Supplied in:** 25-kg-bags
- Storage:** dry in closed bags
- Shelf-life:** 6 month
- GISCODE:** ZP1 (water-soluble part of chrome less than 2 ppm)
- Danger classification:** no dangerous goods, please watch the material safety data sheet

Compressive Strength



SUPPLEMENTARY PRODUCTS

Depending on the use and layer thickness there are beside R 20/20 and R 20/05 further fast repair mortars available:

R20/10	SCREEDING COMPOUND AND ADHESION LAYER	(0 – 1 mm grain)
R20/40	STANDARD MORTAR	(0 – 4 mm grain)
R20/80	COARSE MORTAR	(0 – 8 mm grain)

Especially when having thick and large-area concrete layers R 20/40 or R 20/80 may be used by applying the adhesion layer R 20/20.

TECHNICAL DATA		R 20/10	R 20/40	R 20/80
Granulation	mm	0 – 1	0 – 4	0 – 8
Coating thickness	mm	4 – 10	10 – 50	30 – 80
Quantity of water	%	11 – 13	11 – 12	11 – 12
Consumption per 10 mm sickness	kg/m ²	19	20	20
Fresh mortar gross density	kg/dm ³	2.14	2.20	2.00

	TEMPERATURE	5 °C		20 °C		5 °C		20 °C	
Compressive strength	2 h N/mm ²	7	9	7	13	6	9		
	4 h N/mm ²	8	10	11	18	9	10		
	8 h N/mm ²	11	12	12	21	10	12		
	24 h N/mm ²	14	17	20	22	12	15		
	3 d N/mm ²	24	34	26	32	27	37		
	7 d N/mm ²	38	41	38	41	32	39		
	28 d N/mm ²	52	68	64	62	65	70		

SURFACE PROTECTION

Product:	O2C PAGEL-PROTECTION SYSTEM + O2C-WA (winter additive) as from 2 °C
Basic:	O2C according to ZTV-SIB OS-C, Styrolacrylat
Amount of coats:	2
Consumption:	approx. 170 g/m ² each coat
Waiting period after applying mortar:	20 °C = approx. 6 hours 5 °C = approx. 12 hours
Waiting period after 1st coat:	20 °C = approx. 12 – 24 hours 5 °C = approx. 24 – 48 hours
Processing:	regard our Technical Leaflet O2C

Information provided in this leaflet, supplied by our applications consulting service and contained in other recommendations is based on exhaustive research work and extensive experience. It is, however, without liability on our part, in particular with regard to third parties proprietary rights, and does not relieve the user of the responsibility for verifying that the products and processes are suitable for the intended application. The given testing dates were found out when having a temperature of 20 °C and mean average values and analysis. Deviations are possible when delivery takes place. Our customer service staff will be glad to provide assistance at any time. We appreciate the interest you have shown in our products. This technical data sheet supercedes previously issued information.



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