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MANHOLE REGULATION/GROUTS

VT05		PAGEL-TURBO GROUT																	
VT10	<p>PROPERTIES</p> high flowability is ready for load-bearing within as little as 30 minutes extremely fast setting grout CDF-tested, frost and road-salt resistant	<p>APPLICATIONS</p> or example: manhole regulation utility access house connections VT05 manhole grouting from inside																	
											Grain size mm	Grouting height mm	Compressive strength N/mm ²				Application time min (20 °C)	Expansion Vol. %	Consumption kg/m ³
													0,5 h	1 h	1 d	28 d			
		VT05	0 – 0,5	10 – 30	≥ 5	≥ 8	≥ 25	≥ 55	app. 5	+ 0,4	1900								
		VT10	0 – 1	10 – 50	≥ 5	≥ 8	≥ 45	≥ 70	app. 1 – 3	+ 0,4	1900								


VB10		PAGEL-RAPID SET GROUT																	
VB40	<p>PROPERTIES</p> high flowability is ready for load-bearing within as little as 30 minutes longer application time than V T CDF-tested, frost and road-salt resistant	<p>APPLICATIONS</p> for example: manhole regulation utility access house connections																	
											Grain size mm	Grouting height mm	Compressive strength N/mm ²				Application time min (20 °C)	Expansion Vol. %	Consumption kg/m ³
													0,5 h	1 h	1 d	28 d			
		VB10	0 – 1	10 – 50	≥ 5	≥ 8	≥ 35	≥ 60	app. 10	+ 0,4	1900								
		VB40	0 – 4	30 – 60	≥ 5	≥ 8	≥ 35	≥ 60	app. 10	+ 0,4	1900								

REPAIR GROUT/QUICK-REPAIR MORTAR


K A -S		PAGEL-REPAIR GROUT									
PROPERTIES	rapid set repair grout impermeable to water plastic consistency				APPLICATIONS sealing rigid cracks temporary sealing cracks that leaks water						
	CE	Grain size mm	Layer thickness mm	Compressive strength N/mm ²						Application time min (20 °C)	Consumption kg/m ³
				1 h	2 h	8 h	1 d	7 d		28 d	
		KA-S	0 – 0,5	≤ 20	≥ 4	≥ 8	≥ 25	≥ 30		≥ 50	≥ 60

B 1		PAGEL-QUICK-REPAIR MORTAR								
PROPERTIES	immediately curing slower hardening as K A -S application time 2-5 min plastic consistency				APPLICATIONS repair of water break-throughs setting of climbing irons filling of holes					
		Grain size mm	Layer thickness mm	Compressive strength N/mm ²						Application time min (20 °C)
				1 h	1 d	7 d	28 d			
		B1	–	–	≥ 2,5	≥ 30	≥ 40	≥ 55		app. 2-5


MANHOLE REGULATION/PLASTIC GROUT


PAGEL-TURBO GROUT - PLASTIC CONSISTENCY							VT-P10		
PROPERTIES	extremely fast setting mortar early heavy workload frost and road-salt resistant		APPLICATIONS installation of manhole rings round and square						
	Grain size mm	Grouting height mm						Compressive strength N/mm ²	Application time min (20 °C)
			0,5 h	1 h	1 d	28 d			
VT-P10	0 – 1,0	10 – 50	≥ 5	≥ 6	≥ 35	≥ 55	app. 3	+ 0,4	1900


MANHOLE REGULATION/-REHABILITATION/REPAIR MORTAR

PAGEL-RAPID SET GROUT - PLASTIC CONSISTENCY							VB-P10		
PROPERTIES	extremely fast setting mortar is ready for load-bearing within as little as 30 minutes (20 °C) water impermeable frost and road-salt resistant		APPLICATIONS installation of manhole rings round and square shaft repairing repair mortar after 30 minutes filling of joints						
	Grain size mm	Grouting height mm						Compressive strength N/mm ²	Application time min (20 °C)
			0,5 h	1 h	1 d	28 d			
VB-P10	0 – 1	10 – 50	≥ 5	≥ 8	≥ 35	≥ 55	app. 8	+ 0,4	1800

MANHOLE REGULATION/-REHABILITATION/REPAIR MORTAR

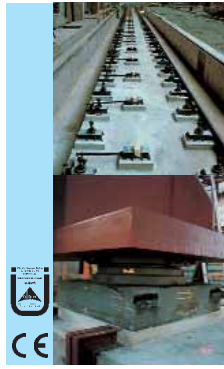
PAGEL-QUICK-REPAIR-MORTAR										R20/10	
PROPERTIES	load bearing after 2 hours (even at 5 °C) application time app. 20-30 min water impermeable frost and road-salt resistant			APPLICATIONS							R20/20
	covering of manhole repair mortar for channel setting of clinkers filling of joints										R20/40
											R20/80
CE	Grain size mm	Layer thickness mm	Compressive strength N/mm ²				Application time min (20 °C)	Adhesive strength N/mm ²	Consumption kg/m ³		
			2 h	1 d	7 d	28 d		28 d			
	R20/10	0 – 1	3 – 20	≥ 5	≥ 20	≥ 40	≥ 55	app. 15	≥ 2	1900	
	R20/20	0 – 2	5 – 40	≥ 5	≥ 25	≥ 40	≥ 55	app. 15	≥ 2	2000	
	R20/40	0 – 4	20 – 50	≥ 5	≥ 25	≥ 45	≥ 55	app. 15	≥ 2	2000	
R20/80	0 – 8	30 – 100	≥ 5	≥ 25	≥ 40	≥ 55	app. 15	≥ 2	2000		

PAGEL-CHANNEL MORTAR										KA 20	
PROPERTIES	high resistance against strong chemical attack sprayable, wet spraying water impermeable			APPLICATIONS							
	application on job side areas										
CE	Grain size mm	Layer thickness mm	Compressive strength N/mm ²			Application time min (20 °C)	Adhesive strength N/mm ²	Consumption kg/m ³			
			1 d	7 d	28 d		7 d				
	KA20	0 – 2	6 – 40	≥ 20	≥ 40	≥ 55	app. 45	≥ 2	1900		

PAGEL-CHANNEL SLURRY										KA Slurry	
PROPERTIES	polymer-modified rigid sealing slurry for manual application on vertical and over-head surfaces can be exposed to water after 2 hours			APPLICATIONS							
	collector sewers sewer inspection chambers industrial water tanks rainwater retention basins										
CE	Grain size mm	Layer thickness mm	Compressive strength N/mm ²				Application time min (20 °C)	Consumption kg/dm ³			
			2 h	4 h	8 h	1 d	7 d	28 d			
	KA Slurry	0 – 0,5	2 – 6	≥ 5	≥ 10	≥ 15	≥ 25	≥ 40	≥ 50	app. 20	1,8

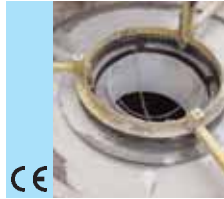
PAGEL-Grouts and Steel Fibre Grouts

- high free-flowing grout for the grouting of machinery, columns, bridge bearings, etc.
- pre-mixed grout with a plastic consistency
- basalt grout for high-temperature areas
- steel fibre grout for heavy duty areas
- super-high-strength-grout for early high and final strength



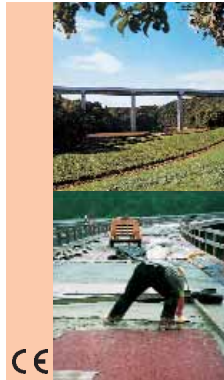
PAGEL-Special and Anchor Grouts

- quick setting and extremely fast setting grout load-bearing after a short time
- anchoring grout for mining construction and filling of joints and cavities



PAGEL-Concrete Repairing

- combined corrosion protection and adhesion layer
- PCC-mortar for all application fields
- PCC-screeding compound with workable application
- SPCC-spray mortar suitable for both wet and dry spraying techniques
- the total PAGEL-Concrete Repair System agrees with the norms of the Ministry of Transport in Germany



PAGEL-Repair Mortar

- universal mortar for the repairs of wall- and floor surfaces
- quick repair mortar for concrete and mortar areas, load bearing after 2 hours



PAGEL-Channel Mortar

- high resistance to some extent also against very substantial chemical attack



PAGEL-Ready-for-use Mortar (Drinking water sector)

- mortar according "drinking-water-area" – also approved in color white



PAGEL-Concrete Protection Colours

- impregnation of concrete and mortar surfaces
- finishing coating also of moist-damp surfaces
- crack bridging concrete protection colours or cement slurry



PAGEL-Industrial Floors

- steel-fibre flooring for industrial halls – by adding basalt to be applied within heat areas, too
- levelling screed for indoor and outdoor areas



PAGEL-Products for Construction

- quick-repair mortar immediately setting and load bearing, for sealing and assembly
- tile adhesive multipurpose utility



PAGEL-Resins

- undercoats for dry, damp or rough surfaces
- self levelling coating avoids electrostatic charge and is crack bridging
- final sealer a coating with pigments, weather-resistant, also to be used within potable-water areas
- high strength grout



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