



# PAGELASTIC SURFACE PROTECTION/COATING

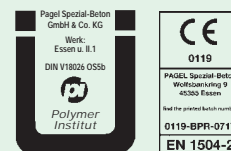
- PROPERTIES**
- a **polymer modified cement slurry** with high elastical characteristics
  - **crack-bridging** for all surface-near stress fractures and areas with fine cracks < 0,2 mm, even when having temperatures of -20 °C
  - consists of **two components**, is delivered in ready for use containers and the processing is easy and **without any problems**
  - **vapor-permeable**
  - **resistant to water**, hinders the penetration of water and harmful substances dissolved in the water, for example dew-salts
  - **stops the penetration of CO<sub>2</sub>** (carbonating)
  - **resists water pressure** up to 5 bar
  - for reasons of its consistency it can be applied by **brush, steel scraper** or by **spraying** without any problems
  - its widespread field of application, **crack-bridging abilities** and effortless usage ensure a durable economic solution as surface protection and **sealing**
  - for colouring it is possible to paint-over with crack-bridging surface protection coating, for example O2DE (according to TL/TP-OS/DII)
  - **monitored** in accordance with the valid standards and guidelines in accordance with **ISO 9001**

- FIELDS OF APPLICATION**
- crack-bridging floor- and **wall-coating** suitable for substrates of concrete, mortar and masonry, not exposed to traffic
  - provides protection against **penetration of thawing-salt** within the splashing zone
  - **bridge supports** and crash barriers
  - **balconies**, terraces, for sealing underneath tiles
  - **concrete buildings**
  - surface protection system **OS-DI** according to **ZTV-ING (TL/TP-OS)**
  - alternative sealing against not pressing water (DIN 18 195 T5)

D1

<b>CE</b>	
1119	
PAGEL® Spezial-Beton GmbH & Co. KG D-45355 Essen	
find the printed batch number	
1119-CPD-0717	
EN 1504-2	
D1 PAGELASTIC Surface protection / coating	
Linear shrinkage:	NPD
Thermal expansion coefficient:	NPD
Cross cutting:	NPD
CO <sub>2</sub> -permeability:	SD value: > 50 m
Water steam permeability:	Class I: ≤ 5 m
Capillary water absorption and water permeability:	W <sub>24</sub> ≤ 0.1 kg/m <sup>2</sup> x h <sup>0.5</sup>
Resistance to temperature changes:	≥ 0.8 N/mm <sup>2</sup>
Resistance to temperature shock:	NPD
Resistance to chemicals:	NPD
Crack bridging ability:	A2 (-20°C)
Adhesion test for assessment of adhesive force (without working load):	≥ 0.8 N/mm <sup>2</sup>
Product fire behaviour:	E
Adhesion:	NPD
Artificial weathering:	No obvious defects
Antistatic behaviour:	NPD
Adhesion to wet concrete:	NPD
Hazardous substances:	In accordance with EN 1504-2, 5.3

NPD: \*No Performance Determined\*



TECHNICAL DATA			
TYPE	dry mortar	mixing liquid	
	COMPONENT A	COMPONENT B	
appearance	powder	liquid	
colour	grau	milchig-weiß	
packaging	20 kg (bag)	9 l (can)	
material basis	cement	polymer dispersion	
mixing ratio	pbw	1	0,45
MIXED MATERIAL			
density of freshly mixed water	kg/dm <sup>3</sup>	ca. 1,70	
colour		grey app. RAL color 7032	
vapour transfer resistant	m	< 4*	
CO <sub>2</sub> -resistance	m	> 200*	
compressive strength (28d)	N/mm <sup>2</sup>	> 0,8	
crack bridging -ability	+ 20°C	cw mm	0,4
	- 20°C	cw mm	0,2
working temperature	N/mm <sup>2</sup>	°C	+ 8 – + 30
working time	+ 10 °C	min.	app. 180
	+ 20 °C	min.	app. 120
	+ 30 °C	min.	app. 60
minimum layer thickness in 2 passes	mm	2	
consumption according ZTV-ING per m <sup>2</sup> app. kg per layer			
OS-DI	R <sub>t</sub> =0,2 mm	2,5	
	R <sub>t</sub> =0,2 mm	2,7	
	number of layers	2	
* equivalent airtightness having 2 mm strength coating pbw = part by weight cw = crack width			
All test data are guide values, proofed in our German manufacturing plants, - values from other manufacturing plants may vary.			

**supplied in:** component A: 20-kg-bags  
component B: 9-l-cans

**storage:** cool, frost free and dry

**shelf-life:** **powder component: min. 9 month**  
**liquid component: min. 6 month**  
in unopened sealed containers

**hazard class:** no dangerous goods  
watch safety data sheet

**GISCODE:** ZP2

The EU-limit for the VOC-yield of this product (cat. A/C) will be in ready-to-use condition: 75 g/l (2007) / 45 g/l (2010). This product is having in ready-to use condition < 1 g/l VOC.

Attention should be paid to the details given in product application, layer-thicknesses, material consumption and material surcharge according appendix A and B of DIN V18026.

You will find certificates of compliance, EC-declarations of conformity and given details for the product application at [www.pagel.com](http://www.pagel.com).

## PROCESSING

**SUBSTRATE:** Clean and dry, remove loose and un-sound material, if necessary sandblast or grind the surface. Larger cavities in the substrate are filled using M10 PAGEL-GROUT READY FOR USE (PCC) or MS20 PAGEL-REPAIR MORTAR PCC-SYSTEM:

tearing strengths: (concrete): > 1,5 N/mm<sup>2</sup>  
adhesion: (screeding compound): > 1,3 N/mm<sup>2</sup>

The surface must be wetted so it appears moist to dry when applying

**LEVELLING:** Rough and uneven concrete surfaces are levelled by using MS05 PAGEL-PCC-SCREEDING-COMPOUND. This procedure is not necessary on a smooth, even surface.

**MIXING:** Pour all of component B (liquid) into a clean vessel, add component A while stirring thoroughly. Mix with a slow revolving mixer (400 rpm) until the material is homogenous and lump-free, at least, however, for 5 minutes.

**PROCESSING:** D 1 is to be applied evenly by using a brush or steel scraper. To reach an evenly structured surface use a soft brush. D 1 can be easily injected (for example by using a Strobl-pump with screeding nozzle). Avoid puddles in the corners or in cavities. Smooth surfaces when having middle temperatures within 5 to 8 minutes. Watch dew point temperature. Temperature of substrate, air and material must be at least +8 °C, max. +30 °C.

Apply 1,7–2,0 kg/m<sup>2</sup> per layer. Attention is to be paid that per process the minimum thickness of each layer is at least 1 mm.

Waiting time (having 20 °C):

- time to get dry: approx. 3 hours
- resistant to rain: after approx. 5 hours
- following layer D 1 : after approx. 5 hours
- layer O2DE: after approx. 24 hours

High humidity and low temperatures prolong the waiting times.

**CURING:** D 1 hardens under normal weather conditions without getting cracks or bubbles. If the material is exposed to strong sun or wind D 1 is to be protected to prevent early drying (for example by using a plastic foil). Is D 1 being coated with O2DE PAGEL-SURFACE-PROTECTION for reasons of colouring two coats of O2DE are to be applied when having a light shade.

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All of the information, technical advice and recommendations provided in this brochure are based on comprehensive research and practical experience. However, they are – including with regard to third-party property rights – for information only and do not release customers from their responsibility to check whether the above products and procedures are suitable for their intended use. The above test data has been derived under standard climatic conditions and in accordance with DIN 50014. These values are average values and analyses, and product values may slightly differ upon delivery. Any recommendations contrary to those stated in this brochure require our written consent. The planner and processing company must always obtain information on the latest state of the art and relevant valid edition of this brochure. Please do not hesitate to contact our customer service department at any time and many thanks you for your interest. This brochure makes all previously published product information null and void. Please visit our website for the latest valid version of this brochure at [www.pagel.com](http://www.pagel.com).



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