

PAGEL®-CONCRETE-PROTECTION-COATING

SURFACE PROTECTION SYSTEM DIN V18026 OS5a
SURFACE PROTECTION SYSTEM DIN EN 1504-2

PROPERTIES

- **crack-bridging coating system** (class I_T) for all **bridge-surfaces** without traffic (splash-zone) and other **concrete structures**
- prevents penetration of water and harmful substances (for example CO₂, SO₂) even at **low temperatures** (tested at temperatures down to -20 °C)
- **vapor-permeable** as well as resistant to alkaline and aging
- bridging both: **stress fractures** and **areas with fine cracks** < 0,3 mm, also has an elongation when subjected to tearing of 115 % (+23 °C) and 103 % (-23 °C)
- **preventive protection** coating on surfaces with a high risk of crack occurrence
- based on a **polymer dispersion** (pure acrylic)
- **free of solvents** and environmentally friendly
- the **PAGEL-CONCRETE-PROTECTION-SYSTEM** is according to the specifications of the **ZTV-ING, TL/TP-OS (96)**, **OS-DII** and corresponds to the guidelines of DafStb, OS-5a.
- **monitored** in accordance with the valid standards and guidelines in accordance with **EN ISO 9001**

- the **PAGEL-CONCRETE-PROTECTION-SYSTEM** consists of

MS05 PAGEL-PCC-SCREE-DING-COMPOUND

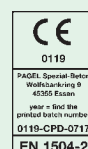
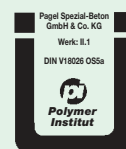
O2DE PAGEL-CONCRETE PROTECTION-COATING

Hersteller: PAGEL® Spezial-Beton GmbH & Co. KG	
Anschrift: Wolfsbankring 9 D-45355 Essen	
find the printed batch number	
EN 1504-2	
CONCRETE-PROTECTION-COATING	
Cross cutting:	≤ GT 2
CO ₂ -permeability:	SD-value > 50 m
Water steam permeability:	Class I ≤ 5 m
Capillary water absorption and water permeability:	w ≤ 0,1 kg/m ² x h ^{0,5}
Adhesion test for assessment of adhesive force (without working load):	≥ 0,8 N/mm ²
Resistance to temperature changes:	≥ 0,8 N/mm ²
Crack bridging ability:	A2 (-20°C)
Product fire behaviour:	E
Artificial weathering:	No obvious defects

FIELDS OF APPLICATION

- **concrete and mortar surfaces** (splash-zone)
- **PCC and SPCC substrates**
- **crack-bridging** protection coating
- **surface protection** on sound surfaces
- resurfacing of sound, compatible **older coatings**
- **optical enhancement** of concrete buildings, both new and old, indoor and outdoor

O2DE



TECHNICAL DATA					
TYPE	MS05 SCREEDING COMPOUND			O2DE SURFACE COATING	
material basis	cement (PCC)			dispersion	
rough density	kg/dm³	1,96			
density				kg/dm³	1,360
solids				Vol. %	53
layer thickness	min.	mm	1,5	mm 0,330	
	max.	mm	6	mm 2,660	
consumption by ZTV-ING per m² app. kg each coating					
OS-DII	R _t =0,2 mm		2,0	0,34	
	R _t =0,5 mm		2,0	0,37	
	number of coatings		1	3	
temperatures	substrate, surface, air				
	min.	°C	+5	°C	+8
	max.	°C	+40	°C	+40
moisture level	air	% < 100		%	85
	surface	mat-damp		%	< 6
application time					
	20 °C	min.	45	no limit	
mixing water					
each 25-kg-bag	I		3,75		
1. Coating			+ %	3	
2. + 3. Coating			undiluted		
waiting period until next coating:					
substrate dry	> d		5	> h	24
insensitive against wetness					
	20 °C	> d	1	> h	4
adhesive strength on concrete surface					
(must 1,3 N/mm²)	N/mm² > 1,8				
adhesive strength on screeding compound-surface					
(must 0,8 N/mm²)					
T-min				N/mm²	1,3
colour	grey			RAL 7032	
				other on inquiry	
supplied in	25-kg-bag		17 kg(12,5 l)-can		
storage	dry, frost free in unopened sealed containers				
shelf-life	9 months		12 months		
hazard class	no dangerous goods				
All test data are guide values, proofed in our German manufacturing plants, - values from other manufacturing plants may vary.					

O2DE: The EU-limit for the VOC-yield of this product (cat. A/C) will be in ready-to-use condition: 75 g/l (2007) / 40 g/l (2010). This product is having in ready-to use condition < 25 g/l VOC.

PROCESSING

System structure:

MS05	PCC-SCREEDING-COMPOUND
O2DE	1 st coating
O2DE	2 nd coating
O2DE	3 rd coating

SCREEDING-COMPOUND SUBSTRATE: Rough and uneven concrete surfaces are levelled by using **MS05 PAGEL-PCC-SCREEDING-COMPOUND**. Follow the directions given in the data sheet for this product. Wait at least 5 days (20 °C) before applying **O2DE** to the fresh filler.

MIXING: O2DE is ready for use. Mix until homogeneous before use. 1st layer can be diluted by up to 3 % water 2nd and 3rd layer to be stirred-up before using

PROCESSING: O2DE can be applied by brush, roller or spraying system. (Airless appliance: nozzle 0,018-0,021 inch, filter to be cleaned regularly). Apply evenly, avoid joints. 3fold coating is necessary for crack-bridging coating. 2fold coating is necessary for sound substrates or for substrates with stress fractures and fine cracks up to 0,3 mm - waiting time between each process: 24 hours

CLEANING OF TOOLS: Immediately after work the tools should be cleaned carefully with water and active detergent substances.

CAUTION: Material must not be applied when it is raining heavily, when it is very windy, when the substrate is heated up – in case of one of the a.m. situations protect with plastic foil or equivalent.

Details of completions, layer thicknesses, material consumptions and -surcharges in accordance with Annex A and B of DIN V18026 has to be observed. Certificates of conformity, the EC declarations of conformity and informations about the completion, will be find under www.pagel.com

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 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.



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