

PAGEL®-CONCRETE-PROTECTION-COATING

SURFACE PROTECTION SYSTEM DIN V18026 OS 5a
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

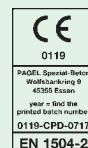
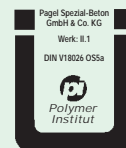
- MSO5 PAGEL-PCC-SCREEDING-COMPOUND
- O2DE PAGEL-CONCRETE PROTECTION-COATING

CE	
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	MSO5 SCREEDING COMPOUND	O2DE SURFACE COATING	
material basis	cement (PCC)	dispersion	
rough density	kg/dm ³	1,96	
density		kg/dm ³	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 m ² 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	l	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/mm ²) N/mm ² > 1,8		
adhesive strength on screeding compound-surface	(must 0,8 N/mm ²)		
T-min		N/mm ²	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:

MSO5	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 MSO5 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 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.



PAGEL®

SPEZIAL-BETON GMBH & CO.KG

WOLFSBANKRING 9 · D-45355 ESSEN
 TEL. +49 (0)2 01-6 85 04-0 · FAX +49 (0)2 01-6 85 04-31
 INTERNET: WWW.PAGEL.COM · E-MAIL: INFO@PAGEL.COM