

PAGEL®-PROTECTION-PAINT

ZTV-ING: OS-C, DAfStb: OS-4

PROPERTIES

- **surface protection** for not open to traffic areas of **bridges and other concrete buildings** having new, old and repaired substrates
- can be applied as well to **matt-moist** as to **dry substrates**, penetrates pore-deep and remains capable of vapor diffusion
- **protects** against environmental influences, prevents carbonatizing, is resistant to weather and does not become yellow
- is **frost** and **dew-salt** resistant
- retards shrinking and **strengthens** the surface-near area
- can be either **injected** (airless) or **rolled**
- contains **acrylic dispersion** as binder, is watery, **free of solvents** and especially environmentally friendly
- particularly **economical** when having a **matt-moist substrate**, no **undercoat** is needed, processing- and scaffolding time are reduced by several days to approx. 36 hours (**saves wage costs**)
- **has been examined in accordance with ZTV-ING, TL/TP-OS (96), OS-C** and corresponds to the guidelines of DAfStb, OS-4
- **is subject to our own constant controlling** in accordance with the recognized standards and guidelines – the production is certified in accordance with **ISO 9001**

CE	
1119	
PAGEL® Spezial-Beton GmbH & Co. KG D-45355 Essen	
find the printed batch number	
1119-CPD-0717	
EN 1504-2	
O2C PAGEL®-PROTECTION PAINT surface-protection-product / coating	
Linear-shrinking	NPD
Thermal expansion coefficient	NPD
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 ₂₄ ≤ 0,1 kg/m ² x h ^{0,5}
Resistance to temperature changes	≥ 0,8 N/mm ²
Resistance again temperature-shocks	NPD
Resistance to chemicals	NPD
Crack bridging ability	A1
Adhesion test for assessment of adhesive force (without working load)	≥ 1,0 N/mm ²
Product fire behaviour	E
Grip	NPD
Artificial weathering	No obvious defects
Antistatic-rating	NPD
Adhesive strength on wet concrete	NPD
Hazardous Substance	In accordance with EN 1504-2, 5.3

NPD: „No Performance Determined“

FIELDS OF APPLICATION

- concrete and mortar surfaces – indoor and outdoor
- injection and spraying of bridges and tunnels
- coating of fine net cracks (< 0,1 mm)
- on fresh mortar- and concrete surfaces as curing agent – saves for example 5 days water holding covering

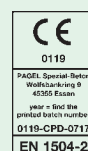
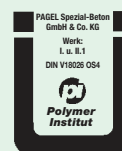
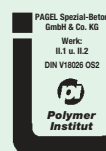
O2C

DIN V18026 OS4 supplied as a system:

- | | |
|----------------|--------------------|
| 1. MS05 | Screeding compound |
| 2. O2C | 1. Coating |
| 3. O2C | 2. Coating |

DIN V18026 OS2 supplied as a system:

- | | |
|---------------|----------------|
| 1. O2A | Hydrophobation |
| 2. O2C | 1. Coating |
| 3. O2C | 2. Coating |



TECHNICAL DATA					
TYP	MS05 SCREEDING-COMPOUND			O2C SURFACE COATING	
material basis	cement (PCC)			styrolacrylat	
rough density	kg/dm³	1,96			
density				kg/dm³	1,419
solids				Vol. %	47
layer	min.	mm	1,5	mm	0,12
thickness	max.	mm	6	mm	0,36
consumption by ZTV-ING per m² app. kg each coating					
OS-B	R _t =0,2 mm	–			0,24
	R _t =0,5 mm	–			0,27
	No. of coating	–			2
OS-C	R _t =0,2 mm	2,0			0,26
	R _t =0,5 mm	2,0			0,29
	No. of coating	1			2
temperatures	substrate, surface, air				
	min.	°C	+5	°C	+8
	max.	°C	+40	°C	+40
moisture level	air	%	<100	%	85
	surface	mat-damp		matdamp* or dry	
application time					
	20 °C	min.	45	no limit	
mixing water					
each 25-kg-bag	l			3,75	
1. coating				+ %	3
2. coating				undiluted	
waiting periode until next coating:					
substrate matt-damp	> h	6		> 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 app.1,3				
colour	grey			RAL 7032	
	other on inquiry				
supplied in	25-kg-bag		18 kg(12,5 l)-can		
storage	dry, frost free in inopened sealed cotainers				
shelf-life	9 month			12month	
hazard class	no dangerous goods				
All test data are guide values, proofed in our German manufacturing plants, - values from other manufacturing plants may vary.					
* “fresh” screeding compound surfaces					

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O2C: 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 < 40 g/l VOC.

PROCESSING

System structure:

1. **MS05 PAGEL-PCC-SCREEDING-COMPOUND**
2. **O2C** 1st coating
3. **O2C** 2nd coating

SUBSTRATE OF SCREEDING-COMPOUND: Rough and uneven concrete surfaces are levelled by using **PAGEL-MS05 PCC-SCREEDING-COMPOUND** through either hand- or machine-coating. Follow the directions given in the data sheet for this product.

MIXING: O2C is ready for use. Mix until homogenous. The 1st coating is to be diluted by up to 3 % water, the 2nd coating remains undiluted.

PROCESSING: O2C 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.

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.

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.



PES [UK] Limited

UNIT 1 WATLING CLOSE SKETCHLEY MEADOWS BUSINESS PARK
HINCKLEY LEICESTERSHIRE · GB - LE10 3EZ
TEL. +44 [0]1455 251251 FAX: +44 [0]1455 251252
WWW.PESUKLTD.COM · E-MAIL: SALES@PESUKLTD.COM

PAGEL SPEZIALBETON 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
WWW.PAGEL.COM · E-MAIL: INFO@PAGEL.COM