

CONCRETE PROTECTIVE PAINT

O2DE CONCRETE PROTECTIVE PAINT

TEST CERTIFICATES AND SUPPORTING DOCUMENTS

- › Product acc. to DIN EN 1504-2 "Surface protection product - Coating"
- › Factory production control acc. to DIN EN 1504-2
- › Company certification acc. to DIN EN ISO 9001:2015

PROPERTIES

- › The PAGEL CONCRETE PROTECTION SYSTEM - consisting of **MS05** and **O2DE** - meets the requirements for a surface protection system - OS-D II according to ZTV-ING Part 3 and OS-5a according to DAfStb directive
- › Crack-bridging coating system (crack-bridging class IT) for not open to traffic areas of bridges (spray and splash zones) and other concrete structures
- › Also prevents the penetration of pollutants (e.g. CO₂, SO₄) and water in the cold temperature range (tested for up to -20 °C)
- › Water vapour permeable as well alkali-resistant and weatherproof
- › Bridges crazing and separating cracks 0.3 mm and has an elongation when subjected to tearing of 115 % (+23 °C) and 103 % (-23 °C) respectively
- › For the preventive protective coating on surfaces prone to cracks
- › Pure acrylate dispersion with physical drying and polymerised UV-curing additives for an optimised drying
- › Solvent-free and environmentally friendly

AREAS OF APPLICATION

- › Concrete and mortar surfaces (splash and spray zones)
- › PCC and SPCC substrate
- › Crack-bridging protective coating
- › Surface protection for crack-free surfaces
- › Reworking of tightly adhering, load-bearing and compatible old coatings
- › Optical design of new, old and repaired concrete parts - indoors and outdoors

TECHNICAL DATA

TYPE	MS05 SCREED	O2DE TOP COATING
Material basis	Cement (PCC)	Plastic dispersion
Bulk density	1.96 kg/dm ³	
Density	1.4 kg/dm ³	
Solid content	53 Vol.-%	
Layer thicknesses	min. 1.5 mm max. 6 mm	0.330 mm 2.660 mm
Consumption according to ZTV-ING per m ² approx. kg per application		
OS-DII	Rt=0.2 mm Rt=0.5 mm Number of appl.	2.0 2.0 1 3
Processing time	20 °C approx. 45 min	unlimited
Mixture water		
per 25-kg bag	3.75 L	
1. top coating	+ 3 %	
2. and 3. top coating	undiluted	
Waiting time until the next coating:		
Substrate matt-moist	5 h	24 h
Insensitive against wetness 20 °C	1 d	4 h
Adhesive pull strength on concrete substrates (Spec. value 1.3 N/mm ²)	> 1.8 N/mm ²	
Adhesive pull strength on screed substrate (Spec. value 0.8 N/mm ²)		
T-min	approx. 1.3 N/mm ²	
Colour	grey	RAL 7032
	Other available on request	
Delivery form	25-kg container	17-kg canister (12.5 l)
Storage	dry, free from frost in original containers	
Storage period	12 months	12 months
Hazard class	non-hazardous material, observe safety data sheet	

O2DE: The EU VOC content limit for these products (Cat. A/C) when ready for use is: 75 g/L (2007) / 40 g/L (2010). When ready for use, this product contains < 25 g/L VOC.

PROCESSING

SYSTEM:

MS05 SCREED
O2DE 1. TOP COATING
O2DE 2. TOP COATING
O2DE 3. TOP COATING

SCREED SUBSTRATE:

For the levelling of surface roughnesses and voids, **MS05** SCREED is used acc. to the separate technical data sheet in manual or machine application.

The surface of the screed is smoothed.

MIXING:

O2DE is ready to use. Stir up the mixture homogeneously. The 1. top coating is diluted with 3 % water at the maximum, the 2. and 3. top coating remains undiluted.

APPLICATION:

O2DE can be painted, rolled or sprayed (airless appliance: nozzle 0.018 - 0.021 inch, clean filter regularly). Distribute the material evenly and avoid joints. For crack-free surfaces, 2 top coatings are sufficient. For substrates cracked and/or prone to cracks, at least 3 top coatings have to be provided.

CLEANING:

Clean tools with water and active detergent substances.

CAUTION:

The material must not be used in heavy rain and high wind as well as with a heated substrate, if necessary, protect with a canvas. Processing at > 3 K above the dew point.

OS-DII:

If applied in areas not receiving daylight, physical drying is delayed due to lack of UV exposure. As a consequence, it should only be applied to structures that receive daylight and where this light will accelerate the coating's hardening process.

Moisture range: < 100 % (**MS05**)
and < 90 % (**O2DE**)

Temperature range: + 5 °C to + 40 °C