

CONCRETE PROTECTIVE PAINT

O2C CONCRETE PROTECTIVE PAINT

TEST CERTIFICATES AND SUPPORTING DOCUMENTS

- › Product acc. to DIN EN 1504-2 "Surface protection system for concrete" - Coating
- › Meets the technical delivery specifications TL-OS according to ZTV-ING Part 3, general building inspection test certificate P 1860 / 99-35
- › Factory production control acc. to DIN EN 1504-2
- › Company certification acc. to DIN EN ISO 9001:2015

PROPERTIES

- › Surface protection for not open to traffic areas of bridges and other concrete buildings having new, old and repaired substrates
- › Can be applied to matt-moist and dry substrates, penetrates pore-deep and remains open to vapour diffusion
- › Protects against environmental influences, hampers carbonation, is resistant against any weathering and yellowing
- › Frost and deicing salt resistant
- › Can be sprayed (airless) or rolled
- › Contains acrylic dispersion as binder, is watery, free of solvents and especially environmentally friendly
- › Particularly economical, no primer coat is needed, processing and scaffolding time is reduced from several days to approx. 36 hours (reduction in labour costs)

AREAS OF APPLICATION

- › Concrete and mortar surfaces for indoor and outdoor use
- › Splash and spray zones of bridges and tunnels
- › Coating of superficial crazing (0.1 mm)
- › On fresh mortar surfaces and concrete surfaces as curing agent – saves for example 5 days water holding covering

TECHNICAL DATA

TYPE		MS05 SCREED	O2C TOP COATING
Material basis		Cement (PCC)	Styrolacrylat
Bulk density		1.96 kg/dm ³	
Density			1.42 kg/dm ³
Solid content			47 Vol.-%
Layer thicknesses	min.	1.5 mm	0.12 mm
	max.	6 mm	0.36 mm
Consumption according to ZTV-ING per m ² approx. kg per application			
OS-B	Rt=0,2 mm	n. d.	0.24
	Rt=0,5 mm	n. d.	0.27
	Number of appl.	n. d.	2
OS-C	Rt=0,2 mm	2.0	0.26
	Rt=0,5 mm	2.0	0.29
	Number of appl.	1	2
Processing time	20 °C	appr. 45 min	unlimited
Mixture water			
per 25-kg bag		3,75 l	
1. Top coating			+ 3 %
2. Top coating			undiluted
Waiting time until the next coating:			
Substrate matt-moist		6 h	24 h
Insensitive against wetness 20 °C		1 d	4 h
Adhesive pull strength on concrete substrate (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	18-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	

* e.g. "fresh" screed surfaces
n. d. = not determined

O2C: 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 < 40 g/L VOC.

PROCESSING

OS4 SYSTEM:

MS05 SCREED

O2C 1. TOP COATING

O2C 2. TOP COATING

OS2 SYSTEM:

O2A HYDROPHOBATION

O2C 1. TOP COATING

O2C 2. TOP COATING

OS4 STRUCTURE:

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:

O2C is ready to use. Stir up the colour homogeneously. The 1. top coating is diluted with 3 % water at the maximum, the 2. top coating remains undiluted.

OS2 STRUCTURE:

Apply **O2A** undiluted with an airless sprayer, roller or brush.

Apply the 1. and 2. top coating of **O2C** undiluted.

APPLICATION:

O2C can be painted, rolled or sprayed (airless appliance: nozzle 0.018 - 0.021 inch, clean filter regularly). Distribute the material evenly and avoid joints.

The dew point has to be observed: 3 K above the dew point.

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.

Moisture range: < 100 % (**MS05**)
< 85 % (**O2C**)

Temperature range: + 5 °C to + 40 °C