




Technical Data Sheet

ASODUR®-V360W INDUFLOOR®-IB2360 Art.-No. 2 05056

Water emulsified sealer

	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2 – 8 D-32760 Detmold 15 2 05056	
EN 1504-2 ASODUR-V360W Surface protection product - Coating Principle 2.2/5.1/6.1	
Water vapour permeability	Class II
Capillary water absorption and water permeability	$w < 0,1 \text{ kg/m}^2 \times \text{h}^{0,5}$
Tensile adhesion strength by pull-off test	$\geq 1,5 \text{ [1,0] N/mm}^2$
Abrasion resistance	Loss in mass $\leq 3000 \text{ mg}$
Impact resistance	Class I
Resistance to strong chemical attack	Visible observations to ISO 4628/1 possible only, due to the very thin film
Reaction to fire	Class E
Hazardous substances	In compliance with 5.3 EN 1504-2

- Water emulsified, pigmented, 2-comp. epoxy resin.
- Free from organic solvents.
- Low odour.
- Resistant to dilute alkalis and acids, heating oil and petrol.
- Can be diluted up to 10% with water (priming).
- Water vapour permeable.
- Excellent adhesion to many substrates.
- Satin-sheen surface finish.
- Water resistant.
- Resistant to plasticizers.
- Can be produced as an anti-slip finish.

When exposed to UV, colour variations – related to the binder – as well as chalking must be anticipated. Permanent exposure to weathering and permanent exposure to wet conditions is to be tested on an individual basis.

Areas of application:

ASODUR-V360W is used for sealing cement-based floor areas, magnesite screeds, calcium sulfate screeds and well compacted poured asphalt screeds e.g. in

warehouses, workshops, garages, production areas, access balconies etc. Avoid high point loading. Not suitable for heavy duty areas under high mechanical stresses.

Technical Data:

Basis:	2-comp. epoxy resin
Colour:	pebble grey (≈ RAL 7032) stone grey (≈ RAL 7030) Special colours: oxide red (≈ RAL 3009) light grey (≈ RAL 7035) light ivory (≈ RAL 1015) Other special colours on request
Viscosity*:	medium viscosity
Density*:	approx. 1.36 g/cm ³
Mixing ratio:	100:20 parts by weight
Pot life*:	approx. 40 minutes
Ambient and substrate temp.:	min. +10 °C max. +35 °C at max. 65 % relative humidity
Foot traffic after*:	approx. 16 hours
Overcoat after*:	approx. 16 hours up to max. 24 hours
Fully cured after*:	approx. 7 days
Shore D hardness:	approx. 70
Water vapour transmission factor:	approx. 1 250 μ
Cleaning:	Thoroughly clean tools immediately after use with water.
Packaging:	1 kg, 6 kg, 12 kg and 30 kg containers. Components A and B are delivered at a predetermined mixing ratio.
Storage:	12 months when stored dry, cool and frost free above +10° C in the original unopened packaging.

* The values are valid at +23 °C and 50 % relative humidity

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Substrate preparation:

The area to be treated must be:

- dry, firm, sound and have a good key
- free from separating and adhesion inhibiting substances such as dust, laitance, grease, oil, rubber marks, paint residues and similar

Dependent on the condition of the substrate to be treated, use suitable preparation methods e.g. shot blasting, scabbling, planing, brushing, sweeping, vacuuming, grit blasting, high pressure washing. Seal existing cracks (e.g. with ASODUR-K900 in accordance with the technical data sheet).

The following criteria are also to be observed dependent on the particular substrate:

Cementitious surfaces:

- Concrete: min. C20/25
- Screed quality: DIN EN 13813 min. CT-C35-F5
- Age: min. 28 days
- Tensile adhesion strength: 1.5 N/mm²
- Residual moisture: 6% (carbide hygrometer method)
- Render quality: P III a / P III b
- Tensile adhesion strength: approx. 0.8 N/mm² (pre-blended mortar)
- Residual moisture: 6% (carbide hygrometer method)

Magnesia screed:

- Screed quality: DIN EN 13813 min. MA-C35-F5
- Age: min. 14 days
- Tensile adhesion strength: > 1.0 N/mm²
- Residual moisture: < 2 % (carbide hygrometer method)

Calcium sulfate screed:

- Screed quality: DIN EN 13813 CA-C25-F5
- Age: min. 14 days
- Tensile adhesion strength: > 1.0 N/mm²
- Residual moisture: < 0.5% (carbide hygrometer method) with underfloor heating < 0.3 % (carbide hygrometer method)

Mastic asphalt screed:

- Screed quality: AS IC15
- Tensile adhesion strength: > 1.0 N/mm²

Product preparation:

Components A (resin) and B (hardener) are delivered at a predetermined mixing ratio. Tip component B into component A.

Ensure that the hardener drains completely from its container. Blend both components together with a suitable mixer at approx. 300 rpm (e.g. drill with paddle). It is important to also stir from the sides and the bottom to ensure that the hardener is evenly dispersed. Stir until the mix is homogenous (free from streaks); mixing time approx. 5 minutes. The minimum temperature during mixing should be +15° C. Do not use mixed material directly from the packaging. Decant the material into a clean container and mix through thoroughly once again.

Method of application / consumption:

Apply 2-3 coats of ASODUR-V360W by roller. Pour the mixed material in portions over the area and spread using a twin-bladed rubber squeegee. Then even out using a short nap paint roller in a 90° crossways manner.

Priming: Dilute ASODUR-V360W with 8 to a max. of 10% water and apply by roller in one coat (crossways at 90°). Consumption: approx. 300 g/m² of diluted material.

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Possible situation - levelling /scratch coat:

Produce the levelling/scratch coat:

ASODUR-V360W: 1.0 part by weight

Quartz sand (particle size 0.1 -0.35 mm) 0.5 parts by weight

Mix in the quartz sand with the previously homogenously mixed and decanted resin and hardener components.

Ensure that the liquid and solid constituents are evenly blended.

Levelling layer and scratch coat:

Apply the finished mix in a single operation on the primed surface to a thickness of max. 2 mm using scratch coat techniques. Treat uneven areas as necessary, once cured, with 100 grade abrasive paper without leaving grooves, and vacuum. Once hardened, seal the area with ASODUR-V360W.

The consumption dependent on substrate condition is approx. 1.6 kg/m²/mm thickness.

Drying time: 1 - 2 days/mm.

Recesses and pinholes are to be closed off with ASODUR-V360W with the addition of 2-3% by weight of the fibre filler ASO-FF. A second layer can be applied, if needed, after waiting for approx. 2 hours.

Finishing sealer:

ASODUR-V360W is roller applied (crossways at 90°) in 1 - 2 coats on to the primer or scratch coat.

Consumption: approx. 300-350 g/m²/coat

Possible situation - slip prevention:

Apply one coat of ASODUR-V360W. Homogenously stir in ASO-Antislip (10% by weight), then thoroughly and evenly apply the mix with a short nap paint roller crossways at 90°. Keep overlap areas as small as possible.

Consumption: approx. 140 - 170 g/m²
plus 14 - 17 g/m² ASO-AntiSlide

Important advice:

- Avoid applying individual coats too thickly (greater material consumption). This leads to crack formation, possibly de-lamination and to extended waiting times between individual applications.
- Ensure there is good ventilation during the drying and curing phases.
- As a rule SCHOMBURG products are supplied in working packs i.e. at a predetermined mixing ratio. With deliveries in large containers, part quantities will need to be weighed using scales. Always thoroughly stir the filled components and only then blend with the second component. This is to be carried out with a suitable rotary mixer e.g. Polyplan/Ronden mixing paddle or similar. In order to exclude mixing errors, decant into a clean container and remix. The mixing speed should be 300 - 400 rpm. Ensure that no air is entrained. Higher speeds drag unnecessary air quantities into the product whilst lower speeds do not result in a good blend or require too long a mix time (pot life). The temperature of the components should be at a minimum of +15° C. This is also applicable to any fillers, e.g. sand, to be mixed in. The addition of any fillers is carried out after both liquids have been blended. Afterwards tip the completely mixed material immediately onto the prepared substrate and promptly thoroughly spread in accordance with the instructions in the technical data sheet. Always stir one component products before using.
- Higher temperatures shorten the pot life. Lower temperatures increase the pot life and curing time. Material consumption is also increased at lower temperatures.
- Colour: Minor colour variations due to different production plants and raw material fluctuations are unavoidable. This should be considered when applying coatings. Neighbouring sections should be completed with the same production units (see batch number on the packaging).

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- The bond between the individual coats can be heavily impeded through the influence of moisture or contamination between successive applications. The substrate temperature must be a min. of $< 3^{\circ}\text{C}$ above the dew point.
- If there is a long time period between coatings or if areas need to be re-coated after a long time period, then the old surface must be well cleaned and thoroughly abraded, after which a completely new pore free sealing coat should be applied. It is not sufficient to simply overcoat.
- Surface protective systems must be protected for approx. 4 - 6 hours from dampness after application (e.g. rain, melt water). Dampness produces a white discolouration and/or stickiness on the surface and can impede the cure. Discoloured and/or sticky surfaces should be taken off e.g. by abrading and renewed.
- Consumption quantities given are values determined by calculation without additions for surface roughness or absorption, levelling or residues in the containers. We recommend adding a calculated safety factor of 10% to the computed consumption quantities.
- Applications that are not clearly explained in this technical data sheet may only be carried out after consultation with and written confirmation from the Technical Services Department of SCHOMBURG.
- Cured product residues are to be disposed of under waste disposal classification AVW 150106.

Please observe a valid EU safety data sheet.

GISCODE: RE 2

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Resistance list

Test liquids	Concentration (%)	Classification		
		Low resistance (≤ 8 hours)	Medium resistance (≤ 72 hours)	High resistance (≤ 14 days)
Inorganic acids				
Nitric acid	15			■
Sulphuric acid	15			■
Hydrochloric acid	30			■
Organic acids				
Formic acid	2		■	
Citric acid	15			■
Lactic acid	20		■	
Alkalis				
Caustic soda	20			■
Ammonia	25			■
Solvents				
Kerosine	pure			■
Petrol	pure			■
Diesel	pure			■
Ethanol	pure			■
Oils				
Motor oil	pure			■
Brake fluid	pure			■
Heating oil	pure			■
Aqueous solutions				
De-icing salt solution	35			■

All data were determined under laboratory conditions at +20°C. Deviations due to higher temperatures, local factors and ambient conditions are possible. Slight visible surface changes or minor swelling, without impeding the functionality of the waterproof membrane cannot therefore be excluded. In the case of doubt, we recommend a suitability test is carried out related to the project.

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