

ASODUR®-V360W

Concrete sealing, aqueous



Material number	Package type	Colour	Units / pallet	Pc/package
205056202	30 kg, set (2 component)	≈ RAL 7032 pebble grey	12,000	1,000
	A-component 25 kg, can		12,000	1,000
	B-component 5 kg, can		70,000	1,000
205056203	12 kg, combination container	≈ RAL 7032 pebble grey	42,000	1,000
205056912	6 kg, combination container	≈ RAL 7032 pebble grey	70,000	1,000
205056207	30 kg, set (2 component)	≈ RAL 7030 stone grey	12,000	1,000
	A-component 25 kg, can		12,000	1,000
	B-component 5 kg, can		70,000	1,000
205056206	12 kg, combination container	≈ RAL 7030 stone grey	42,000	1,000
205056205	6 kg, combination container	≈ RAL 7030 stone grey	70,000	1,000
205056214	6 kg, combination container	≈ RAL 7035 light grey	42,000	1,000
205056215	12 kg, combination container	≈ RAL 7035 light grey	42,000	1,000
205056216	30 kg, set (2 component)	≈ RAL 7035 light grey	12,000	1,000
	A-component 25 kg, can		12,000	1,000
	B-component 5 kg, can		70,000	1,000
205056220	12 kg, combination container	≈ RAL 1001 beige	42,000	1,000
205056221	30 kg, set (2 component)	≈ RAL 1001 beige	12,000	1,000
	A-component 25 kg, can		12,000	1,000
	B-component 5 kg, can		70,000	1,000
205056248	6 kg, combination container	≈ RAL 7040, window grey	42,000	1,000

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205056251	30 kg, set (2 component)	≈ RAL 7040, window grey	12,000	1,000
	A-component 25 kg, can		12,000	1,000
	B-component 5 kg, can		70,000	1,000

Areas of application / surface protection

- for sealing cement-based substrates, magnesia screeds, calcium sulphate screeds and well-compacted, sanded mastic asphalt
- As levelling filler for recesses and pinholes (modified with ASO[®]-FF)

Product features

- Solvent free
- Water vapour permeable
- water emulsified
- plasticiser and chemical resistant
- resistant to diluted acids and alkaline solutions, heating oil and petrol

Advantages

- Can be diluted up to 10% with water (primer)
- anti-slip application (R10)
- very good adhesion on different substrates
- satin finish
- pigmented
- Low odour

Existing test certificates

Slip resistance classes

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Technical Data

Material properties

Product components	2 component system, water emulsified
Base material	Epoxy resin
Density, ready to use product (ISO 1183-1)	approx. 1.36 g/cm ³
Viscosity, ready to use product	Medium viscosity
Vapour diffusion behaviour	Vapour permeable

Mixing

Mix ratio, component A	100 weight proportion
Mix ratio, component B	20 weight proportion
Mix ratio, addition of levelling / scratch coat quartz sand	0.5 Gewichtsanteil
Mix ratio, addition of ASO-Antislip slip resistance	0.1 weight proportion
Mixing time	approx. 3 minutes
Water addition (primer), optional max.	max. 8.00 - 10.00 percentage by weight

Application

Substrate temperature	approx. 10 - 35 °C
Max. relative humidity	65 %
Pot life	approx. 40 minutes
Minimum reaction temperature	min. 10 °C
Mixing method, machines, tools	Drill with stirrer
Consumption	approx. 0.30 - 0.35 kg/m ²
Second application step after waiting time	approx. 16 - 48 hours
Overcoat after (min.)	after 16 hours
Overcoat after (max.)	to 48 hours
Consumption per mm layer thickness (levelling and scratch coat with quartz sand)	approx. 1.6 kg/m ²
Foot traffic after	approx. 16 hours
Consumption per application step (sealing coat)	approx. 0.30 - 0.35 kg/m ²
Consumption (primer)	approx. 0.3 kg/m ²
Consumption in the vertical area (primer)	approx. 0.15 kg/m ²
Consumption in the vertical area (sealing)	approx. 0.15 kg/m ²
Consumption (sealing coat, slip-resistant)	approx. 0.14 - 0.17 kg/m ²
Application temperature	approx. 10 - 35 °C
Hardening time / full resilience	approx. 7 days

Processing equipment

Aids/tools

- Colour roller
- Stirrer (approx. 300 rpm)
- Nylon fur roller (6mm) with textured polyamide cover
- Tooth scraper
- Circular cage

Manual processing

Can be painted on with paint rollers

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Suitable substrate

- Concrete
- Calcium sulphate screeds (CA, CAF)
- Mastic asphalt screeds (AS)
- Magnesia screeds (MA)
- Cement-based screed (CT)

Preparing the substrate

Requirement for substrate

1. Firm
2. Free of adhesion inhibiting substances
3. Grippy
4. Load-bearing
5. dry ≤ 5% (CM method)

Measures for substrate preparation

1. Existing cracks are to be closed e.g. with ASODUR®-GH-S in accordance with the technical data sheet.
2. Substrate preparations must be carried out in compliance with DIN EN 14879-1:2005, 4.2 et.seq.

Substrate quality class

	Quality	Tensile adhesion strength	Age	Moisture content
Concrete	at least C20/25			
Screed	at least CT-C35-F5 in accordance with DIN EN 13813	≥ 1.5 N/mm ²	at least 28 days	<6% (CM method)
Plaster	at least P III a/P III b	≥ 0.8 N/mm ²		<5% (CM method)
Magnesite screeds	at least MA-C35-F5 in accordance with DIN EN 13813	≥ 1.0 N/mm ²	at least 14 days	<2% (CM method)
Calcium screeds	at least CA-C25-F5 in accordance with DIN EN 13813	≥ 1.0 N/mm ²	at least 14 days	<0.5% (CM method); <0.3% with floor heating system (CM method)
Mastic asphalt	at least AS-IC 15	> 1.0 N/mm ²		

Application

Mixing

1. The (ideal) material temperature during the mixing procedure is +15 °C.
2. Mix the resin homogeneously in the original container.
3. Add the hardener to the resin.
4. The hardener must run completely out of the container.
5. Mix thoroughly with the mixer until a homogeneous consistency is achieved.
6. The hardener must be distributed evenly.
7. The mixing time is ca. 3 minutes.
8. Decant the mass into a clean bucket.
9. Stir carefully again.
10. When adding quartz sands, make sure that they are kiln-dried and, like other aggregates, also have a temperature of approx. +15 °C.

Primer

1. Dilute ASODUR®-V360W with 8 - max. 10% water.
2. Apply the material in one application step (criss-cross pattern).

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Application

1. ASODUR®-V360W is applied in 1 to a maximum of 2 application steps by rolling.
2. The mixed material is poured onto the surface in portions.
3. Spread evenly over the surface with the fur roller in a criss-cross pattern and level.

Levelling / scratch coat

1. Mix ASODUR®-V360W with quartz sand (Ø 0.1 - 0.35 mm) in a ratio of 1.0 : 0.5 parts by weight.
2. Quartz sand is mixed into the ready-mixed and re-potted material.
3. It must be mixed evenly.
4. The mixed material is applied to the primed substrate in one application step.
5. Apply a layer thickness of max. 2 mm using the scratch coat technique.
6. After hardening, rework any unevenness with 100-grit sandpaper and vacuum.
7. Depressions and pinholes are to be closed with ASODUR®-V360W mixed with ASO®-FF (approx. 3% by weight).

Slip-resistant setting

1. In the mixed ASODUR®-V360W add approx. 8-10 wt.% of ASO®-Antislid homogeneous stirred in.
2. The mixed material is poured onto the surface in portions.
3. Spread evenly with the fur roller in a criss-cross pattern and level.

Cleaning tools

Clean tools immediately after use with suitable solvent.

Storage conditions

Storage

Store in a frost-free, cool and dry place. At min. 10 - 25 °C for 18 months in the original canister. Promptly use opened container.

Notes

- The indicated consumption quantities are calculated values without additions for textured surface roughness and absorbency, level compensation and residual material in the container. We always recommend a calculated safety addition of 10% on top of the calculated consumption quantities.
- Higher temperatures shorten the pot life. Lower temperatures increase the application and hardening times. The rate at which material is consumed also increases at lower temperatures.
- The bonding between the individual layers can be strongly disrupted between the individual application steps due to the effects of dampness and contamination. Coating work requires a substrate temperature of at least 3 °C above the dew point temperature.
- If longer waiting times arise between the individual application steps or surfaces that have already been treated with liquid resin are coated again after an extended period of time, the old surface must be well cleaned and thoroughly roughened. Then apply a complete pore-free new coating.
- Ensure there is good ventilation during the drying and hardening phases.
- Avoid excessive layer thicknesses (additional material consumption) in the individual application steps. These lead to cracking, possibly flaking and extend the waiting time between individual application steps.
- Slight colour differences, caused by different production batches and raw material fluctuations, are unavoidable. Neighbouring surface sections should be coated using the same production batch (same batch no. on the delivered packaging).
- After they have been applied, surface protection systems must be protected against dampness (e.g. rainwater, condensation water) for approx. 4-6 hours. Moisture causes a white colour and/or stickiness on the surface and can cause problems during hardening. Discoloured and/or sticky surfaces must be removed and reworked, e.g. through grinding or shot blasting.
- The surface can be scratched by exposure to grinding abrasion. Particularly visible with dark shades. This will not have a negative impact on proper functioning.
- In order to maintain the surface quality and appearance in the long term, regular care of the surface with suitable cleaning materials and care products is recommended.
- Observe the technical data sheets of the products mentioned before starting work.
- Applications that have not been clearly mentioned in this technical data sheet may only be carried out after the technical service department of SCHOMBURG GmbH has been consulted, and after the said department has approved of such a course of action in writing.
- For detailed information on application, read and observe supplementary technical information no. 19 "Applying ASODUR products".

ASODUR®-V360W


Relevant regulations

The recognised standards of construction engineering, the relevant guidelines and current regulations must be observed.

Observe applicable safety data sheet!

Explanations

Conformity / Declaration / Verification

	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold (Germany) 15 2 05056	
EN 1504-2 ASODUR®-V360W Surface protection material – Coating	
Principle 2.2/5.1/6.1	
Water vapour permeability	class II
Capillary water absorption and water permeability	$w < 0.1 \text{ kg/m}^2 \times h^{0.5}$
Pull-off test for assessment of adhesion	$\geq 1.5 \text{ (1.0) N/mm}^2$
Abrasion hardness	Mass loss $\leq 3000 \text{ mg}$
Impact strength	Class I
Resistance against strong chemical attack	Due to the small layer thickness, only visual assessment after ISO 4628/1 is possible
Reaction to fire	class E
Hazardous substances	Compliance with 5.3 (EN 1504-2)

Colours

	≈ RAL 7040, window grey
	≈ RAL 7035 light grey
	≈ RAL 7032 pebble grey
	≈ RAL 7030 stone grey
	≈ RAL 1001 beige

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Chemical durability

Test fluid	Concentration (%)	Classification		
		low resistance (≤ 8 hours)	moderate 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		■	
Alkalies				
Sodium hydroxide	20			■
Ammonia	25			■
Solvent				
Kerosene	neat			■
Petrol	neat			■
Diesel	neat			■
Ethanol	neat			■
Oils				
Engine oil	neat			■
Brake fluid	neat			■
Heating oil	neat			■
Aqueous solution				
De-icing salt-solution	35			■

All information has been determined under lab conditions at +20 °C, deviations due to higher temperatures, local conditions and ambient conditions are possible. It is not possible to fully exclude minor visible surface changes or slight swelling that does not affect the functionality of the waterproofing. In case of doubt, we recommend an object-specific suitability test.

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