

ROMPOX® 1503 Primer

Primer for oil soiled concrete surfaces in combination with ROMEX® Oil Remover

1.0 Application Areas

ROMPOX® 1503 Primer is a 2-component epoxy resin. The material is highly moisture tolerant.

ROMPOX® 1503 Primer humidifies matt-damp surfaces, blocks water, and leads to excellent adhesion..

In combination with the degreaser **ROMEX® Oil Remover** oily substrate can be cleaned. Afterwards A base coat can be applied.

Because of the very good penetration capability and high wettability properties the material stands the test on critical substrate. The material offers increased adhesive strength for substrate with lacking solidity. Because of its medium viscosity the material is suitable for scratch coats and as a wet bonding course for bonded screed. Good adhesion on blasted steel.

2.0 Technical data of liquid components

2.1 Technische Daten

System	2-component epoxy resin		
Mixing ratio	A : B = 100 : 60 Parts by weight		
Density (AB)	1,08	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Processing temperature	Minimum 10 °C - Maximum 30 °C (Room and floor temperature)		
Consumption base coat	approx. 0,3 – 0,4 kg/m ²		
Consumption scratch coat	approx. 0,4 – 0,6 kg/m ²		
Consumption	approx. 0,150 – 0,300 kg/m ² per 1 mm layer thickness		
Curing time (Accessibility)	10°C/50°F: 24-28 hrs. 20°C/68°F: 12-15 hrs. 30°C/86°F: 8-12 hrs.		
Curing	2 - 3 day for mechanical load at 20 °C / 68 °F		
	7 day for chemical resistance at 20 °C / 68°F		
Further coatings	After curing, but not longer than 48 hours at 20 °C / 68°F		
Shelf time	12 months (original sealed) – Protect from frost!		

2.2 Packaging

ROMPOX® 1503 Primer, Can-Combi 1 kg, Bucket-Combi 10 kg, Hobbock-Combi 30 kg, Bucket-Combi 960 kg.

2.3 Storage

Store in dry and at frost-free conditions. Ideal storage temperature is between 10 - 20 °C / 50 - 68 °F. Bring to a suitable working temperature before application. Tightly re-seal opened containers and use the content as soon as possible.

3.0 Application and Properties

- Use as base coat before coating pale-damp and chemically wet-cleaned substrate.
- Use as base coat on early age screed- and concrete-substrate.
- Use as base coat on sand-blasted steel.
- Reinforcement for substrate with insufficient rigidity.
- Scratch-coat for sealing and levelling.

The substrate to be coated has to be levelled, dry, free of dust, has to have adequate tensile and compressive strength, and be free from weakly-bonded components or surfaces. Materials impairing adhesion, such as grease, oil, and paint residues must be removed using suitable methods.

ROMPOX® 1503 Primer can be used as a bonding course on pale-damp substrate after degreasing with **ROMEX® Oil Remover**.

Suitable surfaces are concrete C20/25, cement screed CT-C35-F5, as well as other adequately sound surfaces. The substrate must have adequately high strength for the proposed occupational use. The coating of mastic asphalt with epoxy resin is not recommended. The adhesive tensile strength can be increased on stability-lacking substrate because of the reinforcing effect of the material.

The surface to be coated should be prepared mechanically, preferably by shot-blasting. The surface strength must then be a minimum of 1.5 N/mm². For concrete, moisture content must not exceed 4.5 CM-%, remaining residual humidity. The possibility of moisture ingress from the rear must be permanently excluded.

Under certain circumstances **ROMPOX® 1503 Primer** may be applied on damp substrate (up to about 6.0 CM-%). For application on substrate with increased dampness a double layer of primer is required. If necessary, get advice from ROMEX® technical support. Please refer to the advice issued by the trade associations, e.g. the current edition of BEB-worksheets KH-0/U and KH-0/S. Reconstructing floors requires a final examination, e.g. testing the adhesive tensile strength beside the usual requirements.

3.1 Processing Instructions

Mixing:

Single packages of the components need to be weighed in the precise mixing ratio. Combi-trading units will be supplied in the correctly measured mixing ratio. Component A has sufficient volume for the entire trading unit. Decant the hardener B into the resin completely. Blend with a slow speed mixer (200 - 400 r/pm) for at least 2 – 3 minutes, for a material that is homogeneous and free of streaks. To avoid mixing errors it is recommended to empty the resin/hardener-mixture into a clean container and mix briefly once again (“to replot”).

Producing scratch coats:

1,0 kg **ROMPOX® 1503 Primer**

0,5 - 0,8 kg **ROMEX® 3201** quartz sand, grain size 0,1-0,5 mm

Before adding additives the resin has to be premixed. The amount of the sand-blend to be added depends on the desired texture and consistency.

Base coat:

Processing the material as a base coat takes place immediately after mixing with a coating knife, spatula, or nylon roller. Apply an evenly closed sealing coat on the substrate, re-roll time-delayed if necessary. On highly absorbent surfaces a second coat or a saturated scratch coat is recommended to achieve a fully sealed substrate. While still fresh, scatter the surface with approx. 0.8 kg fire-dried quartz sand (grain size 0.3/0.8 mm) for optimum adhesion. This is mandatory if the subsequent coatings will be applied later than 36 hours after base coat application. For an increased resistance to osmosis it is necessary to apply the base coat in two layers, or apply a base and scratch-coat. Then do not scatter the first coating and work within the recommended time pattern.

Scratch coat:

For smoothing and completely sealing the substrate it is recommended to apply a scratch coat before subsequent coatings. Use a trowel, metal-, or rubber coating knife. The consistency has to be adjusted according to the absorbency of the substrate and set so the material may run true. Floor- and air-temperature must not fall below 10 °C / 50 °F and humidity must not exceed 75 %. The difference in floor- and room-temperature must be less than 3 °C / 37.4 °F so the curing will not be disturbed. If a dewpoint situation occurs adhesion may malfunction, curing may be disturbed, and spotting may occur. Curing time applies to 20 °C / 68 °F. Lower temperature may increase, higher temperature may decrease the curing and processing time. If working conditions are not complied with, deviations in the described technical properties may occur in the end product.

3.2 Product Features

- “total solid” according to Giscode (test method of the Deutsche Bauchemie, German construction chemistry association)
- tested, low-emission quality
- with accreditation (DIBt®) for interior areas
- very excellent adhesion
- reinforcing
- all-purpose application
- resistant to hydrolysis and saponification
- cures even on damp substrate
- increased durability to osmosis
- high penetration
- free of deleterious substances against varnish


ROMEX® 1503 Primer is AgBB-tested and DIBt®-accredited und in combination with different coatings. Tested in combination with ROMPOX® 1070 according to “protection and maintenance of concrete construction parts” by the DAfStb, part 2 and part 4.

Note: Please ask for the tested system structure!

4.0 Special Remarks

The product is subject to the hazardous material-, operational safety-, and transport-regulations for Hazardous goods. Refer to the DIN-Safety Data Sheet and the information on the labelled containers!

GISCODE (05/2018 modification): RE 30

	
ROMEX GmbH Industriepark Kottenforst Mühlgrabenstraße 21 53340 Meckenheim	
13	
1503-V1-022013	
DIN EN 13813:2003-01	
Synthetic resin screed mortar DIN EN 13813: SR-B1,5-AR0,5-IR7	
Fire behaviour	C _{fi} -s1
Emission of corrosive substances	SR
Wear resistance BCA	AR 0,5
Adhesive tensile strength	B 1,5
Impact resistance	IR 7

CE	
1119	
ROMEX GmbH Industriepark Kottenforst Mühlgrabenstraße 21 53340 Meckenheim	
13	
1503-V1-022013	
DIN EN 1504-2:2004	
Surface protection products-coating DIN EN 1504-2: ZA.1d,ZA.1f,ZA.1g	
Abrasion resistance	Complied with
CO ₂ -permeability	SD > 50m
Water vapour permeability	Klasse III
Capillary water absorbtion and water permeability	< 0,1 kg/m ² *h0,5
Resistance to increased chemical excavation	Complied with
Resistance to impact	Class I
Tear-test for adhesive strength evaluation	> 1,5 N/mm ²
Fire behaviour	C _{fl} -s1

All stated information is based on our experience and technical preparation. We guarantee the correct and proper quality of our products. We do not assume any responsibility for the work not carried out by us, since we have no influence on the processing or processing conditions. We recommend on-site trials to be conducted. With appearance of this new ROMEX® product information all prior information loses validity. The updated version is available on our website www.romex-ag.de. In addition, our „General Terms and Conditions“ apply.

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