

PRODUCT DATA

CONCRETE REPAIR MORTAR 5403

DESCRIPTION

RUST-OLEUM® Concrete Repair Mortar 5403 is a solvent free, shrink-free three component epoxy material. A fourth component can be added for vertical repair.

RECOMMENDED USES

RUST-OLEUM Concrete Repair Mortar 5403 should be used for repair work on floors and walls; the material is also suitable for the application of coves.
RUST-OLEUM 5403 is applied with a trowel or mason's float.
RUST-OLEUM 5403 offers protection against heavy abrasion, impact, heavy pedestrian traffic and vehicle traffic.
RUST-OLEUM 5403 can be applied on horizontal and vertical areas primed with Tack-Primer 5120 directly followed by application of the Mortar (wet into wet). Very porous substrates are to be pre-primed with RUST-OLEUM 5401 Impregnation primer.
RUST-OLEUM 5403 can be recoated with RUST-OLEUM Self-Levelling Mortar Compound 5400, High-Performance Epoxy System 9100 or with Solvent-free High-Build Epoxy 5500.

TECHNICAL DATA

Appearance:	Natural
Colour:	Natural, wet sand
Density:	2.0 kg/l (mixed product)
Solids Content:	100% by volume (mixed product)
Viscosity:	N.a.
Recommended film thickness:	min. 4 mm; impermeable to water from 7 mm. Thickness
Compression strength:	94.6 N/mm ²
Tensile strength:	22.6 N/mm ²
VOC-content max.	0 g/l
Ready-for-use mixture:	0 g/l
Category:	A/j
EU Limit value:	550 g/l (2007) / 500 g/l (2010)

Drying times	20°C/50% r.h.	10°C/60% r.h.	30°C/50% r.h.
To touch:	16 hours	36 hours	12 hours
Foot traffic:	After 16 hours	After 48 hours	After 12 hours
Light traffic:	36 hours	72 hours	24 hours
To recoat:	After 16 hours, but within 24 hours		
Full hardness	7 days	14 days	5 days

Heat resistance:	50°C (wet heat) 100°C (dry heat)
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Coverage

Theoretical:	2.0 kg/m ² per 1 mm thickness
Practical:	Practical coverage depends on many factors such as porosity and roughness of the substrate and material losses during application.

SURFACE PREPARATION

Remove oil, grease and all other surface contaminations by alkaline or high pressure (steam) cleaning. Remove loose and unsound concrete until a sound surface is obtained. New concrete or masonry should dry and cure for at least 30 days before applying RUST-OLEUM Concrete Repair Mortar 5403 or a coating system.

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Rusted reinforcement bars should be prepared by blasting or other suitable methods; apply the appropriate RUST-OLEUM Epoxy primer mixed with dry quartz sand; after drying, apply RUST-OLEUM Concrete Repair Mortar 5403. The surface should be clean and dry during application.

DIRECTION FOR USE

Mix base and activator with a low speed mixer followed by adding the granulate under slow agitation; mix slowly until material is homogeneous.

Mixing ratio: pre-measured quantities
Pot-life: 30 minutes for a 15 kg. mix at 20 °C

APPLICATION & THINNING

Horizontal use:

Prime the substrate with RUST-OLEUM Tack-Primer 5120. Apply the mortar (wet into wet) with a trowel or a steel float, immediately after mixing, on the primed substrate. Covings should be produced with the help of a bottle.

Vertical use:

Prime the substrate with RUST-OLEUM Tack-Primer 5120. Add 4th component to the mortar and apply the mortar (wet into wet) with a trowel or a steel float, immediately after mixing, on the primed substrate. (max 30 mm).
For higher build multiple applications are required or produce a mould or shuttering.

Clean-up: RUST-OLEUM Thinner 160

APPLICATION CONDITIONS

Temperature of material, air and substrate between 10 and 35°C and relative humidity below 85%. The substrate temperature must be at least 3°C above dew point.

REMARKS

Maximum dry thickness (vertical): 30 mm; max. area size 30 x 30 cm.
The compression strength of the concrete should be minimum 25 N/mm², the tensile strength minimum 1.5 N/mm².
Impermeable to water from 7 mm thickness.
RUST-OLEUM Repair Mortar 5403 should be recoated within 24 hours, unless pretreatment of the substrate takes place. In this case cleaning of the surface with RUST-OLEUM Thinner 190 or sanding is necessary.
Some chemicals may cause discoloration.
Expansion joints should be filled with a flexible sealant.

SAFETY

Consult Safety Data Sheet and Safety Information printed on the can.

SHELLIFE / STORAGE CONDITIONS

2 years from date of production in unopened cans, if stored in dry, well ventilated areas, not in direct sunlight at temperatures between 5° and 35°C.

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