



Marothon A

Product

Simson Marothon A is a self-levelling, elastic, solventfree, 2-component, polyurethane floor finish.

Applications

Marothon A is ideally suited to obtain a waterproof floor in for instance:

- Trailers.
- Trucks.
- Garages.
- Storage areas.
- Units.
- Climate control installations.

Features

- Solventfree.
- Wear resistant.
- Easy and fast application.
- Self-levelling.
- Anti corrosion.
- Damages easy to repair.
- TNO certified for food contact.



Marothaan

Adhesion

The surfaces must be clean and free of dust and grease. When used in trailers, the floor must be level. Regarding the application temperature we advise a minimum of +15°C, since Marothaan will not cure at a sufficient rate. Do not expose Marothaan to bright sunlight, because UV may cause discoloration. The best application temperature is +20°C.

Pretreatment

Prepare the substrate with Simson Primer 209 (2-component) or Simson Primer 60D (1-component) as follows:

Wood (Plywood birch or beech quality): Remove any varnish or paint coats; apply Primer 209 with a roller or a brush. Wood must be absolutely dry! Be particularly careful with new wood (residual moisture content must not exceed 15%). Fill seams between wooden panels or between different materials with glass fibre strips embedded in Primer 209.

Concrete: Floor must be dry and at least 6 months old. Apply Primer 209 with a roller or brush. Humidity rising up from the ground must be prevented at all times.

Polyester: Roughen with coarse sandpaper; wash with methylene chloride or acetone. Apply Primer 60D with a roller or brush.

Marothaan: Wash off old Marothaan with methylene chloride or acetone. Apply Primer 60D with a roller or brush.

Primer drying time: Primer 209, minimum 6 hours, maximum 18 hours.
Primer 60D, minimum 1 hour, maximum 18 hours.

Apply Marothaan as soon as the Primer has dried.



Marothaan

Method of use

Method of use Base-coat:

- 1 Take 1 pail of Marothaan (10 kg) and thoroughly mix the content with the contents of 1 pail of Hardener 4300B (2.3 kg).
- 2 Mix both components with an electric drill with a blending spiral.
- 3 After mixing, pour the content from the pail into a clean bucket/pail. Continue blending thoroughly for a few minutes to produce a homogenous mixture. This is important because unblended material will not harden. Apply the mixed product within 15 minutes. While applying the content of the first pail, start mixing the next pail if more material is required.
- 4 Divide the floor into sections of approx. 2,5 m² and pour the contents of the bucket over one section. Divide the material across the surface using an adhesive spreader. Marothaan is self-levelling.
- 5 The Marothaan is spread 10 cm up the vertical edges, rendering the side seams watertight as well. The previously applied tape must be removed directly after Marothaan has been applied.

The surface can be walked on after 6 to 8 hours and is fully cured after 48 hours.

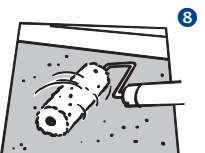
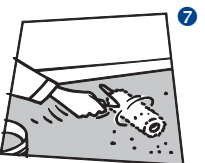
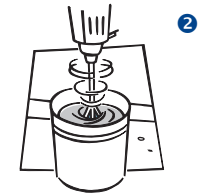
Method of use non slip with Simson Mandurax:

- 6 Non slip: approximately 2 hours (at +20°C) after applying Marothaan the floor can be strewn with Mandurax granules (approx. 0.5 kg/m²). After 3 to 4 hours, the floor is hard enough to walk on.
- 7 Fixing the non-slip coat: take 1 can of Simson Marotop and mix thoroughly with the content of 1 can of Hardener 4300B (1.17 kg) to form a homogenous mass (in the same manner as described in point 3). Divide the liquid mixture by pouring zigzag over the floor so the surface to be coated can still be walked on. Then divide evenly with a roller; and allow to cure for 4 hours. Consumption approx. 350 - 450 g/m².

Method of use non slip with Simson Marocoat:

- 8 Approximately 7 hours (at +20°C) after applying Marothaan the floor can be treated with Marocoat. Take 1 can of Marocoat A and mix thoroughly with the content of 1 can of Marocoat B to form a homogenous mass (in the same manner as described in point 3). Divide the liquid mixture by pouring zigzag over the floor so the surface to be coated can still be walked on. Then divide evenly with a coarse foam roller; allow to cure for 4 hours. Consumption approx. 350 - 450 g/m².

Ready for use: final strength is achieved after 48 hours (at +20°C) and the floor can be subjected to loads.





Marothaan

Technical data

A-component:

Basic material	polyol
Consistency	liquid
Viscosity A-component	16,000 ± 1,500 mPa.s
Specific gravity A-component	1.64 g/cm ³
Colour component A	grey, white and blue
Packaging A-component	tin 5 kg and 10 kg, drum 275 kg, container 1,400 kg

B-component:

Basic material	MDI
Consistency	liquid
Viscosity B-component	150 mPa.s
Specific gravity B-component	1.20 g/cm ³
Colour component B	darkbrown
Packaging B-component	tin 1.17 kg and 2.3 kg, drum 225 and 250 kg

A+B component:

Basic material	polyurethane
Consistency	liquid
Viscosity mixture	4,500 ± 500 mPa.s
Specific gravity mixture	1.54 g/cm ³
Colour component A+B	grey, white and blue

Mixing ratio A:B	100:22.5	(in weight)
Mixing ratio A:B	100:31	(in volume)
Pot life	55 minutes	(100g, 20°C, 55% R.H.)
Curing time	7 hour	(can be walked on)
Curing time	48 hour	(capable of carrying a load)

Hardness Shore A	98	(DIN 53505)
Hardness Shore D	70	(DIN 53505)
Tensile stress σ_{max}^*	14 N/mm ²	(DIN 53504)
Elongation at σ_{max}^*	20%	(DIN 53504)
Tensile stress at break*	13 N/mm ²	(DIN 53504)
Elongation at break*	50%	(DIN 53504)
Tear propagation	65 N/mm	(DIN 53515)
Young module	70 N/mm ²	
Solvent content	0%	
Temperature resistance	-30°C to +90°C	

(*complete curing at 20°C, 55% R.H.)

Storage stability

Marothaan can be stored for 12 months in an original, unopened container in a dry place at temperatures between +5°C and +30°C.

Further information

The following publication is available on request:

- Material Safety Data Sheets (MSDS Sheet)
- Certificate GL elastomeric adhesive, class A and B

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The Adhesive Company

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