

# TECHNICAL DATA SHEET

## SandSealms®



From NEOFERMA AUSTRALIA PTY LTD

### PRODUCT

#### SandSealms®

Ultra-Low Viscosity Polyurethane resin for pouring and spraying applications

### PRODUCT DESCRIPTION

Sandsealms® is a 1-component, hydrophobic, water reactive, solvent and phthalate free, ultra-low viscosity polyurethane resin.

Sandsealms® has been developed to consolidate, strengthen, and harden the ground surface of sandy soils and suitable substrates.

Applied by pouring or spraying directly to the ground surface.

### USE AND AREAS OF APPLICATION

Hardening and strengthening the top layer of particle based substrates.

### APPLICATION

Sandsealms® is sprayed or poured onto the top surface of the area to consolidate.

Flatten and/or shape the ground surface to the desired profile. Once Sandsealms® is applied and has hardened, the shape and surface is fixed.

Mix the required amount of catalyst into the Sandsealms® resin (maximum 2%) to create the Accelerator.

Apply the mixed resin evenly to the surface. The amount of resin per square metre is determined by the soil type, the permeability of the soil and the strength and depth penetration required.

Alternatively the mixed resin can be sprayed at low pressure over the surface.

Allow the resin to penetrate the soil. The surface is trafficable after curing is complete. Curing times depend on the ambient temperature and the amount of Accelerator applied. Reaction times can be derived from the table below.

The number of cycles is dependent on the application but typically for surface hardening only one cycle is required.

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### APPEARANCE

Yellow amberish resin

### SANDSEALms® Resin:

Viscosity @ 21°C 50-60 cPs

Density +/- 1.15 kg/dm<sup>3</sup>

### SANDSEALms® Catalyst Accelerator:

Viscosity @ 21°C 22 cPs

Density +/- 0.92 kg/dm<sup>3</sup>

Flash Point >150 °C

### REACTION TIMES

Accelerator % used	Ambient temp	15c		20c		≥25c	
		Curing starts	Curing ends	Curing starts	Curing ends	Curing starts	Curing ends
0.5%		600"	2000"	550"	1900"	520"	1800"
2%		250"	560"	220"	450"	180"	350"

### CONSUMPTION

Application viscosity is determined by the type of soil, the permeability of the soil and the strength and depth of penetration required.

A typical consumption on normal sandy soils for standard mechanical properties would be approximately 5 kg per square metre.

### PACKAGING

SANDSEAL is packed in:

20 kg metal can

25 kg plastic jerry can

225 kg metal drum

1000 kg IBC

SANDSEALms® Catalyst is packed in plastic bottles of 2 kg or jerry can of 25 kg.

### SHELF LIFE AND STORAGE

SANDSEALms® is hydro-active and should be shielded from moisture.

Storage temperature should be between 5 and 40°C.

Shelf life of the resin: 24 months in original packaging.

Shelf life of the accelerator: 24 months in original packaging

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Once opened, containers should be used as soon as possible.

## SAFETY PRECAUTIONS

Avoid contact with eyes and skin, always use personal protective equipment in compliance with local regulations. Read the relevant Material Safety Data Sheet before use. Material Safety Data Sheets are available on [www.neoferma.com](http://www.neoferma.com)

*The information listed in this technical data sheet does not imply any warranty. All information in this document is to the best of our knowledge and experience; all of the information above must always be taken as merely indicative and subject to confirmation by the manufacturer. Anyone intending to use this product must ensure beforehand its suitability for the envisaged application. The user is always fully responsible for any consequences deriving from the use of this product. Furthermore, no warranty is given or implied in connection with any recommendations or suggestions made by the manufacturer or any of his representatives, agents, distributors.*

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## FURTHER INFORMATION

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