

Technical Data Sheet

Supascreed Primer & Floor Sealer



DESCRIPTION:

A two-pack waterborne epoxy primer and sealing system. Supascreed Primer & Floor Sealer (SPS Primer) is a low viscosity unpigmented primer specifically designed for priming porous surfaces prior to the application of allnex Supascreed & Surecote based flooring, and other epoxy flooring systems as well.

Supascreed Primer is also an excellent concrete and timber sealer.

TYPICAL FEATURES | BENEFITS:

- Water-based.
- Non-flammable.
- Very good abrasion and scuff resistance.
- Easily cleaned.
- Excellent adhesion to a wide variety of well-prepared substrates such as:
 - * *New and existing concrete both precast and in-situ.*
 - * *Timber | plywood | composite sheeting.*
 - * *Fibre cement sheeting.*
- No odours.
- Tolerant of application to a slightly damp surface.
- Attractive Surface Finish – medium gloss.
- Hard wearing when used as a Floor Sealer.

PERFORMANCE DATA:

Properties	Values			
Minimum Application Temperature: Air	+5°C			
Maximum Application Relative Humidity: Air	85%			
In-service temperatures - wet : on fully cured system	-10 to +40°C			
Heat resistant:	+40°C			
Slip resistance:	R11 to R13. <i>With an added aggregate – see later</i>			
Pot-Life:	+20°C ~ 75%RH	1 hour		
Touch Dry:	+20°C ~ 75%RH	60 minutes		
Hard Dry:	+20°C ~ 75%RH	24 - 48 hours <i>Dependent on air flow</i>		
Recoat Time:	+20°C ~ 75%RH	As a Primer for Supascreed	As a Primer for Rapidcote	As a stand-alone Sealer Coat
		~ Minimum ~ Maximum	60 minutes 8 hours	12 hours 24 hours
Full Cure:	+20°C ~ 75%RH	7 days		
Unaffected by water:	+20°C ~ 75%RH	>48 hours		
Thinning:	Water <i>Refer: Mixing Instructions</i>			
Clean Up:	Wash hands with warm soapy water			
Dangerous Good Class:	Refer SDS			
Packaging:	6.4 litre Kit – Includes Resin & Hardener			
Shelf life:	12 months from date of manufacture (After opening, contents will have a limited shelf life)			

RECOMMENDED USES:

- Bulk retail.
- Factory floor sealer.
- Public areas of concrete to prevent food staining.
- Residential garages and workshops.
- Supermarket floors.
- Dust-proofing.
- Food processing facilities.
- Pulp and Paper mills.
- Slip resistant floor finishes.
- Warehouses.

NOT RECOMMENDED:

- Application below +5°C.
- Will tolerate damp concrete.
- Application to incorrectly prepared surfaces.
- Application to green (uncured) concrete. Allow 28 days.
- Application to unsound substrates.

LIMITATIONS:

- Will yellow if used as a sealer alone and exposed to strong UV. *(However, it will remain transparent).*
- Interior product, but may be used exterior if strong yellowing and dulling is acceptable.

System Component	Supascreed Primer Roller Applied	Supascreed Primer Roller Applied Smooth Finish	Supascreed Primer Roller Applied Smooth Finish	Supascreed Primer Roller Applied Smooth Finish	Supascreed Primer Roller Applied Non-Slip	Supascreed Primer Roller Applied Non-Slip
System Type	Primer Coat	As a Sealer onto Concrete Type A	As a Sealer onto Plywood Timber Type A	As a Sealer onto Fibre-cement Type A	Class 1	Class 2
1 st Coat Coverage	Supascreed Primer 6.0 m ² / Litre	Supascreed Primer 6.0 m ² / Litre	Supascreed Primer 8.0 m ² / Litre	Supascreed Primer 8.0 m ² / Litre	Supascreed Primer 6.0 m ² / Litre	Supascreed Primer 6.0 m ² / Litre
2 nd Coat Coverage	<i>Optional*</i> <i>For use on porous concrete</i> Supascreed Primer 6.0 m ² / Litre	Supascreed Primer 6.0 m ² / Litre	Supascreed Primer 8.0 m ² / Litre	Supascreed Primer 8.0 m ² / Litre	Supascreed Primer 6.0 m ² / Litre	Supascreed Primer 6.0 m ² / Litre
Surface Finish		Smooth	Smooth	Smooth	Refer: 2.14 Surface Finish Design options	Refer: 2.14 Surface Finish Design options
3 rd Coat Coverage		<i>Optional*</i> <i>Dependent on level of Surface finish required</i> Supascreed Primer 8.0 m ² / Litre	<i>Optional*</i> <i>Dependent on level of Surface finish required</i> Supascreed Primer 8.0 m ² / Litre	<i>Optional*</i> <i>Dependent on level of Surface finish required</i> Supascreed Primer 8.0 m ² / Litre	Supascreed Primer 6.0 m ² / Litre	Supascreed Primer 6.0 m ² / Litre
4 th Coat Coverage						Supascreed Primer 8.0 m ² / Litre

NON-SLIP:- floor definitions:

Typical co-efficient of friction “wet” NZS/AS3661.1:1993:

(Samples to be supplied and agreed prior to start of the contract)

Supascreed Primer Type	Description	Description	CF Rating	SRV Rating	R Rating	Non - Slip
	Installation Type	Finish Type	NZ/AS 3661.1 1993	AS/NZS 4586		Application Rates
Type A	Smooth: Roller applied -	Smooth	0.46	41	R11	
Non-Slip Class 1	Fine/Medium duty non-slip: Roller applied with the addition of:- ~ Microcells <i>Mixed into the Supascreed Primer prior to application.</i> <i>Applied in the second to last coat.</i> ~ Revtrid <i>broadcast into the second to last coat</i>	Fine non-slip	0.54	50	R11	@100grams/4 Ltr
		Fine-Medium non-slip	0.56	51	R12	12 grams / m ²
Non-Slip Class 2	Medium duty aggregate: non-slip: Roller applied with the addition of:- ~ J61 Sand ~ Q900 <i>Broadcast into the second wet Supascreed Primer coat with further coats over the aggregate Broadcast</i>	Fine – Silica Sand Fine – medium garnet	0.63 0.73	57 64	R12 R13	2.0 kg (or less) / m ²

SUBSTRATE: – Preparation

All substrates shall be stable and solid.

Note

All control joints junction cracks in the substrate etc. are to be properly treated.

Concrete:

Shall have a surface which has been mechanically trowelled to AS3610:1995 U3/NZ/3114:1987U3 finish.

A minimum compressive strength of 25MPa at 28 days cure.

A minimum of 28 days prior to the installation of Revathane.

The moisture content shall be less than 75% RH.

Plywood | Fibre-cement**Plywood Sheet:**

Element	Value
Framing:	All framing must comply with current legislation. <i>Framing must take into consideration all loading parameters.</i>
Plywood:	Must Comply with AS/NZS2269.
Plywood Type:	H3.2 treated CCA (water-based treatment) with a square edge.
Plywood Thickness:	Floors: 17mm – Minimum. Walls : 12mm – Minimum.
Plywood Installation:	Loose butted.
Plywood Fastening Type:	Corrosion resistant screws - preferably 50mm stainless screws.
Fastening Spacings:	Perimeter: 150mm. Centres: 200mm.
Countersink Fastening:	All fastenings must be countersunk 0.5mm. <i>Fill with allnex Fairing Cream.</i>
Plywood Sheet Joints:	All joints must be left with a uniform finish.

Fibre Cement Sheet

Element	Value
Framing:	All framing must comply with current legislation <i>Framing must take into consideration all loading parameters.</i>
Fibre Cement:	Must Comply with AS/NZS2269
Fibre Cement Type:	With rebated edges that can be stopped to flush the joints.
Fibre Cement Thickness:	Floors: 18mm - Minimum Walls : 9mm – Minimum
Fibre Cement Fastening Type:	316 Stainless Screws - 50mm x 10g
Fastening Spacings:	Perimeter: As per manufacturer's instructions Centres: As per manufacturer's instructions.
Countersink Fastening:	All fastenings must be countersunk as per Manufacturer's instructions. <i>Fill as per the Manufacturer's instructions.</i>
Fibre Cement Sheet Joints:	All joints must be left with a uniform finish.
Fibre Cement Sheet Joints: - Flushing	All joints must be flushed in accordance with the Manufacturer's instructions.

Note

In all cases:- Refer to the Manufacturer's installation instructions.

Timber:

Ensure fixings are below the surface, filled and sanded.

SURFACE PREPARATION:

Ensure that all dust is removed and that the surface is free from oils, fats etc.

Concrete:

Prepare concrete by mechanical abrasion method to: - **CSP2**. (Concrete Surface Profile Scale - International Concrete Repair Institute)

Refer: technical literature:- Surface Preparation.

Remove all concrete curing agents, contaminants and any other material likely to affect the adhesion of the Supascreed Primer.

Timber:

Fill screw holes with appropriate filler to match colour of timber.

Sanding Procedure for Timber as follows:-

Stage	New Timber Floors	Old Timber Floors
1 st	40 or 60 grit	
2 nd	60 or 80 grit	
3 rd	80 or 100 grit	80 or 100 grit
Fine Cut	100 or 120 grit	100 or 120 grit
Finish	Screen Back 120 grit	Screen Back 120 grit

Note
Do not burnish (close the grain) when undertaking preparation or delamination will occur.

Plywood:
Mechanically sand all areas with 120 grit paper.

Fibre-cement:
Mechanically sand all areas with 80 grit paper to remove manufacture applied surface sealer.

SUPASCREED PRIMER KIT COVERAGE:

Supascreed Primer Kit Coverage	System Type	Coverage
Concrete Floors Unit Coverage @ 6m ² / litre /coat ~ 1 x coats ~ 2 x coats	Primer Coat	52.8m ² 26.4m ²
Concrete Floors Unit Coverage @ 6m ² / litre /coat ~ 1 x coats ~ 2 x coats ~ 3 x coats	Sealer Coat - Smooth	52.8m ² 26.4m ² 17.6m ²
Concrete Walls Unit Coverage @ 6m ² / litre /coat ~ 2 x coats ~ 3 x coats	Sealer Coat - Smooth	26.4m ² 17.6m ²
Plywood Unit Coverage @ 8m ² / litre /coat ~ 2 x coats ~ 3 x coats	Sealer Coat - Smooth	35.2m ² 23.4m ²
Fibre-cement Sheet Unit Coverage @ 8m ² /litre/coat ~ 2 x coats ~ 3 x coats	Sealer Coat - Smooth	35.2m ² 23.4m ²
Concrete Floors Unit Coverage @ 6m ² / litre /coat ~ 3 x coats	Sealer Coat – Non Slip <i>Utilizing Microcells or Revtred</i>	17.6m ²
Concrete Floors Unit Coverage @ 6m ² / litre /coat x 3 coats @ 8m ² / litre /coat x 1 coat Unit Coverage ~ 4 x coats	Sealer Coat – Non Slip <i>Utilizing J61 or Q900 Aggregate</i>	14.3m ²

SUPASCREED PRIMER & FLOOR SEALER MIXING RATIO :

Supascreed Primer Part A	2.4 litre
Supascreed Primer Part B	4.0 litre
Water - <i>Clean Potable</i>	2.4 litre
Mix Total	8.8 litre kit

MIXING METHOD:
Add complete contents of Supascreed Primer Resin (Part A) and Supascreed Hardener (Part B) to a suitable container. Power mix at low speed (approximately 300rpm) for 2 minutes ensuring both compounds are homogeneously blended and the colour is uniform.
Add water, scrape the pail sides with a long broad-knife and then mix again.
Mix slowly to avoid air entrapment.
Note: ensure no unmixed materials remain on the sides, rims or lips of the containers.
Allow material to stand for 2-3 minutes prior to use.

APPLICATION METHOD:

Application Method Types				
Roller	Brush	Spreader	Conventional Spray	Airless Spray

Note
If spraying, care must be taken in cleaning equipment and to avoid “setting” of the Supascreed Primer in equipment if left to stand.

Apply by chosen method ensuring a wet edge is kept throughout the entire application process.
Apply thin even coats.

For use as a Primer:

Ensure good cross flow ventilation to accelerate the drying rate.

Apply 1 coat 6m²/ litre

As applied, Supascreed Primer is a water-based *white* emulsion.

Wait until it turns clear before application of Supascreed topping system.

It will still be tacky but toppings may now be laid on it.

Note

Two coats may be required on very porous concrete.

For use as a Sealer:

Ensure good cross flow ventilation to accelerate the drying rate.

Apply number of coats for the surface type chosen.

Thin even coats are required.

Overlap build-ups and lines will be slow to dry.

Sand, disc off the surface between coats as required.

Allow it to harden up before recoating or trafficked. *This is normally overnight.*

SUBSEQUENT RECOATING OF SEALER COATS:

Repairs:

Chemically clean.

Mechanically abrade surface.

Apply a further two (2) coats of Supascreed Primer.

CLEANING & MAINTENANCE:

Cleaning:

Refer: Cleaning Maintenance Document.

Repairs:

Can be undertaken with further new Supascreed Primer applied directly following surface preparation.

Resurfacing:

allnex recommend **two** (2) options:

Smooth System

- Re-surfacing with further coats of Supascreed Primer.

Profiled | Non-Slip System

- A second option is Supascreed Primer Non-Slip which will reinstate the non-slip properties or add non-slip to a previously smooth surface finish.

QUALITY ASSURANCE:

When used as part of a Resin flooring system by an allnex approved applicator they shall ensure all QA checks have been undertaken prior to the installation process and subsequently during the installation process. The completed documentation must be made available to allnex and the client/clients authorised personnel.

The product is to be installed within the required control range to ensure a fully cured hard wearing monolithic floor topping system.

Information to be recorded daily is:

- Concrete sub-base or prefill mix.
- Material batch numbers used.
- Sequence of mixing, ratios and quantities and formula.
- Substrate moisture content & Substrate temperature.
- Ambient temperature | Ambient relative humidity.
- Daily detail of approved applicators on-site.

PRODUCER STATEMENT:

allnex state that Supascreed Primer when used as a Finish coat is suitable as a clear coating. If correctly maintained the coating will have a service life in excess of 5 years.

HEALTH & SAFETY: *Refer: materials safety data sheet.*

(During application)

- Avoid skin contact.
- Wear safety equipment.

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The logo for Allnex, featuring the word "allnex" in a bold, lowercase, sans-serif font. Above the letters "i", "l", and "x" are three horizontal bars in red, green, and blue respectively.

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