

Safe20

Solvent Free Waterproofing membrane



DESCRIPTION

Safe20 is a non-hazardous, one component, liquid applied, moisture curing waterproofing membrane based on SMP - Silyl Modified Polymer technology.

Green Tag certified, Safe20 offers a safe alternative to traditional solvent-based PU membranes, while maintaining excellent mechanical and water resistant properties

The unique properties of Safe20 enable single coat applications over horizontal surfaces, providing time and cost saving efficiencies over multi-coat membrane alternatives.

With excellent adhesion to most common building substrates and a tough, durable, elastomeric finish, Safe20 is suitable for a range of above ground and subterranean applications including retaining walls planter boxes.

Safe20 has been tested to and meets the requirements of AS 4858 and AS 4654.1 for internal and external wet areas as a Class III membrane.

FEATURES AND BENEFITS

- Solvent and Isocyanate free
- Flexible and elastomeric
- Tough durable finish
- Excellent adhesion properties
- 1 coat application over horizontal surfaces
- In built root inhibitor for subterranean applications
- Green Tag certified
- Tested and compliant to AS 4858 and AS 4654.1 for internal and external applications

USES

- Retaining Walls
- Planter Boxes
- Under screed applications to internal/external wet areas

SUBSTRATES

- Concrete
- Render
- Screed
- Masonry
- Compressed and fibre cement sheeting
- PAA certified Structural and Marine plywood

NOTE: For suitability over any substrate or material types not listed above, contact RLA Technical Department for confirmation of suitability and surface preparation

SURFACE PREPARATION

All surfaces to receive the Safe20 Membrane must be firm, clean, dry, sound, and suitable to accept a liquid membrane.

All contaminates such as laitance, grease, oil, wax, curing compounds, loose material, paint, existing coatings and any other contaminants which may reduce or prevent adhesion must be mechanically removed. New concrete must be cured for minimum 28 days. Render and cement screeds must be cured for minimum 7 days.

Masonry surfaces must be pointed flush and all surface defects to substrates including heavy undulations, hollows, voids, rough surfaces, surface depressions and blemishes to be levelled and filled flush with surrounding surfaces and made good. Refer to RLA repair and levelling compounds and surface preparation aids for suitable options.

Fibre cement sheeting, PAA structural and marine plywood sheeting must be installed in accordance with the manufacturers' installation requirements.

Extremely high MPa concrete that does not accept any water absorption on testing should be mechanically diamond ground prior to the use of Safe20.

Adhesion testing on metal and non-porous surfaces is advisable prior to the application of this product.

STATIC CRACK TREATMENT

Safe20 is not designed to span gaps/cracks. All static cracks $\geq 1\text{mm}$ must be filled prior to the membrane application. Clean cracks of any debris or loose material and fill with [RLA Fillet SMP](#) and tool off smooth. For dynamic cracks, expansion and control joints, contact RLA's Technical Department for recommendations.

PRIMING

Safe20 is recommended for application over primed surfaces:

POROUS/ABSORBENT SURFACES:

[RLA POROUS PRIMER](#) Apply 1-2 coats by brush or roller to the substrate

NON POROUS/NON ABSORBENT SURFACES

[RLA NON POROUS PRIMER](#) Apply 1 x coat by brush or roller to the substrate

DAMP SURFACES/SURFACES WITH RESIDUAL MOISTURE CONTENT $>75\%$ RH

RLA MOISTURE SEAL

Apply 1 x coat by brush or roller to the substrate

NOTE: Refer to RLA primer data sheets for specific application and coverage details

SURFACE POROSITY TESTING

To determine the porosity of the substrate and suitability of priming options, a water droplet test can be conducted as per ASTM F3191-16 "Standard Practice for Field Determination of Substrate Water Absorption (Porosity) for Substrates"

DETAILING & BONDBREAKER SYSTEM

Install a 12mm x 12mm bond breaker/fillet using [RLA FILLET SMP](#) sealant to floor/wall junctions horizontal and vertical joint transitions to where the membrane will be bonded to the substrate. Install [RLA FILLET SMP](#) to drainage outlets, flanges and penetrations.

APPLICATION

Safe20 must be installed in strict accordance with AS3740 for internal wet areas and AS4654.2 for external areas.

Horizontal surfaces

Subject to surface conditions and competency of the installer, application of Safe20 to horizontal surfaces can be completed in a single coat. Using a brush or medium nap roller, apply an even and consistent coat to the surface achieving a minimum 1.2mm wet film thickness.

Vertical surfaces

For vertical applications Safe20 is to be applied in 2 x coats. Apply a first, even and consistent coat to achieve a wet film thickness of 0.6mm. Once sufficiently dry apply a second coat at 0.6mm wet film thickness to form a minimum total dry film thickness of 1.2mm

RLA recommends regular testing of the depth of the coat with a wet film thickness gauge at regular intervals during installation.

COVERAGE

	1 x coat application	2 x coat application
Minimum wet film thickness per coat	1.2mm	0.6mm
Coverage rate	1.4kg/m ²	0.7kg/m ²
Total minimum dry film thickness	1.2mm	
Approximate total coverage per pail	10.5m ²	

DRY TIMES

Dry film	4 hours
Recoat	4 hours
Maximum recoat window	24 hours
Screeding	48 hours
Backfilling for subterranean applications	72 hours
Figures based on normal ambient temperatures of 23°C and 50% RH. Temperature, humidity and surface conditions can vary dry time	

LIMITATIONS

DO NOT APPLY SAFE20

- Externally if it is raining or if rain is imminent
- Over any existing coatings
- Directly to particle board flooring. (Ceramic tile underlay must be installed)
- As an external, UV exposed finish
- As a trafficable membrane finish
- For immersed applications
- Directly under tiles
- When surface temperature is below 10°C or greater than 35°C
- To areas subject to negative hydrostatic pressure or rising damp unless first treated with RLA's Moisture Seal.

CLEAN UP

Avoid spills. Equipment should be immediately cleaned with a suitable cleaning solvent, isopropanol, or a citrus based cleaner. Clean skin and hands using RLA's Handy Wipes.

PACKAGING

15kg rectangular pail

SHELF LIFE:

12 months in unopened containers when stored in a cool dry and weatherproof environment.
Once opened curing will commence – reseal as soon as possible and discard any partially cured or skinned material.

HEALTH & SAFETY

For information and advice on the safe handling, first aid, storage and disposal of chemical products, users must refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

PRODUCT INFORMATION:	
Colour	Grey
Form	Viscous liquid
Shelf life	12 months
Packaging	15kg pail
Coverage	1.4kg/m ²
Coverage per pail	Approx. 10.5m ²
DURABILITY TESTING TO AS4858/AS 4654.1	
Classification	Class III
Elongation	>300%
Tensile Strength	>1MPa
Water Vapour Transmission	0.38g/24h/m ²
Bond Strength	23.47N

WARRANTY STATEMENT:

RLA Polymers guarantees this product against manufacturing defects and guarantees it to be manufactured to our published specification.

We certify that this product is suitable for use when fully cured and will perform as described in our technical data sheet or other published materials.

RLA Polymers will replace the product free of charge when purchased from any legally verifiable source and where the product is proven to have been stored, handled, and install according to instructions published on our packaging and within the stated shelf life. The Installation of all materials must be carried out in accordance with the relevant Australian Standard and the Floorcovering Manufacturer's instructions, and the floorcoverings must have been subject to normal traffic conditions.

Warranty doesn't apply if damage, loss, failure to follow instructions, or other circumstances are out of our control.

Sufficient time and access to investigate any complaint must be accorded to RLA Polymers.

The consumer is responsible for any expenses incurred in making a claim.

A claim form can be requested by:

PHONE: 1800 242 931

EMAIL: info@rlapolymers.com.au

MAIL: 215 Colchester Road Kilsyth Victoria 3137
(Attention Customer Service)

WEBSITE: www.rlapolymers.com.au

AUSTRALIAN CONSUMER LAW:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality, and the failure does not amount to a major failure. The benefits under our warranty are in addition to other rights and remedies available to the consumer under the law in relation to the goods and services to which the warranty relates.

DISCLAIMER:

All statements and technical information contained herein are based on tests we believe to be reliable, but the accuracy thereof is not guaranteed.

Users assume all risk and liability resulting from the use of the product and must confirm the suitability thereof by their own tests. Conditions of Sale contain a limited warranty against manufacturing defects.

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