

## PRODUCT DATA SHEET

# Sikafloor®-158 W Fast Barrier

### RAPID-DRYING MOISTURE & INCONTINENCE BARRIER

#### DESCRIPTION

Sikafloor®-158 W Fast Barrier is a rapid-drying, 2-component, solvent-free resin that chemically cures to form a permanent surface barrier.

#### USES

Sikafloor®-158 W Fast Barrier may only be used by experienced professionals.

- To control rising moisture vapour transmission in green/new concrete
- To act as a moisture barrier & primer before suitable Sika products/systems are applied
- To bind/consolidate a weakened or damaged concrete surface
- To act as an incontinence barrier for concrete in Aged & Health Care facilities

#### CHARACTERISTICS / ADVANTAGES

- Very low VOC
- Very low Moisture Vapour Transmission
- Water-based - User Friendly
- Green Star Certified
- Very low odour during application
- Single application on most substrates
- Solvent free
- Non DG storage
- Great penetration into porous construction materials
- Easy mix ratio 2:1 A-B
- Rapid drying ~2hrs @ 23°C
- Highly fluid and easy to apply
- Commercial size packaging - 18kg kit

#### APPROVALS / CERTIFICATES

Water Vapour Transmission (ASTM E96)  
Green Star (VOC-SCQMD Rule 1168)

#### PRODUCT INFORMATION

<b>Composition</b>	2-Component, water-based, epoxy resin	
<b>Packaging</b>	12kg part A & 6kg part B = 18kg kit (16.66L)	
<b>Appearance / Colour</b>	Wet - White Cured - Transparent	
<b>Shelf life</b>	Sikafloor®-158 W Fast Barrier has a shelf life of 12 months from the date of production, if stored properly in undamaged, original, sealed packaging.	
<b>Storage conditions</b>	Sikafloor®-158 W Fast Barrier should be stored in cool dry conditions at all times. Protected from direct sunlight and keep at temperatures between +5 °C and +35 °C.	
<b>Density</b>	Mixed	~1.08 kg/l

# SYSTEMS

Systems	Moisture Barrier & Levelling	Moisture Barrier & Skim Coat
	Concrete (Up to 98% RH)	Concrete (Up to 98% RH)
	Sikafloor®-158 W Fast Barrier	Sikafloor®-158 W Fast Barrier
	Sikafloor® 14 Prep N Prime	Sikafloor® Level Pro Finish
	Sikafloor® Levelling compound	SikaBond® 150 Premium Floor
	SikaBond® 150 Premium Floor	Chosen flooring
	Chosen flooring	

## APPLICATION INFORMATION

Mixing Ratio	Component A : Component B = 2:1 (by weight)	
Consumption	Smooth concrete surface	4-6m <sup>2</sup> /L,
	Smooth cement based compound	4-6m <sup>2</sup> /L,
	Mechanically profiled or very porous surface may require 2 coats	4-6m <sup>2</sup> /L, on first coat 6-8m <sup>2</sup> /L on second coat
	Consumption average is dependent on the absorbency of the substrate.	
Substrate Temperature	+10°C min. / +30°C max.	
Substrate Moisture Content	<ul style="list-style-type: none"> <li>Surface moisture by Tremex method up to ~6%</li> <li>In-situ probe test up to 98% RH</li> </ul> All testing/readings should conform with relevant AS/NZ standards	
Pot Life	+15°C	40min
	+23°C	30min
	+30°C	15min
<b>Note,</b> Mixed Sikafloor®-158 W Fast Barrier stays liquid when pot life is over. Only mix the amount of product that will be consumed directly. <b>DO NOT USE</b> mixed material after pot life has expired and product begins to thicken.		
Waiting Time / Overcoating	<ul style="list-style-type: none"> <li>Subsequent applications may be applied after Sikafloor®-158 W Fast Barrier has turned transparent with no signs of white in the coating and no damage is caused to Sikafloor®-158 W Fast Barrier coating.</li> <li>It is not recommended to leave Sikafloor®-158 W Fast Barrier for long periods (days) prior to next applications as contamination is likely.</li> <li>If Sikafloor®-158 W Fast Barrier surface has been contaminated or left sitting longer than 48hrs with no subsequent applications - lightly sand/abrade - thorough vacuum - wipe with a clean cloth and water. Another coat of Sikafloor®-158 W Fast Barrier should then be applied.</li> </ul>	
Applied Product Ready for Use	~2hrs+ @ 23°C <ul style="list-style-type: none"> <li>Drying is dependent on local temperature, air flow &amp; humidity.</li> <li>Increased air flow (fan) will help drying speeds in cooler temperatures.</li> <li>Do not use gas heaters as a film may settle on the surface causing further applications to de-bond.</li> </ul>	

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Substrate should be fully cured, structurally sound, clean, dry, and free of surface contaminants - curing compounds, efflorescence and dust for example. Surface laitance and dust will inhibit penetration and bond will be reduced. Substrates must be porous and accept water penetration. Test porosity by lightly sprinkling water on various areas of the substrate. If water penetrates, then a good bond with

Sikafloor®-158 W Fast Barrier can be achieved. If water beads and fails to be absorbed surface contaminants are present. Contaminates that are present should be mechanically removed. Highly dense & burnished concrete should be mechanically abraded to achieve a roughened profile. Thoroughly vacuum surface with a quality device prior to installing Sikafloor®-158 W Fast Barrier. Sweeping with a broom is not considered an acceptable cleaning method.

## MIXING

Mix Part A with Part B at a ratio of 2:1 or full kit size of 12kg to 6kg then mix with an electric drill and paddle (Paint Mixer Type) at a low speed to reduce air entrapment.

Using a paint stick or similar is not sufficient to mix the product.

A mixing time of 2 minutes shall be observed.

Mixing shall continue until a homogeneous mix has been achieved.

Scrape sides and bottom of pails to ensure all contents are thoroughly mixed together.

Unmixed material applied to the floor will not cure properly.

## APPLICATION

### Smooth Porous Surface (steel trowel finish concrete)

Apply 1 generous coat of Sikafloor®-158 W Fast Barrier to the substrate using a 6-8mm microfiber roller, ensuring that a continuous coat is achieved over the entire surface (MUST produce a wet reflective appearance with a solid white colour). Back rolling in opposite direction is recommended to insure even coverage.

On particularly porous sections where the initial coat is absorbed immediately, re-apply directly.

Application	Coatings	Result
Moisture Barrier	Minimum 1 coat	Solid white reflective surface
Incontinence Barrier	Minimum 1 coat	Solid white reflective surface
Substrate Consolidation	Minimum 1 coat	Solid white reflective surface
Moisture Barrier + Substrate Consolidation	Minimum 2 coats	Solid white reflective surface

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use.

## IMPORTANT CONSIDERATIONS

- Do not apply further coatings while Sikafloor®-158 W Fast Barrier is still wet or shows signs of white in the coating.
- Sikafloor®-158 W Fast Barrier shall not be used on substrates where hydrostatic pressure may occur
- All construction/expansion joints in existing concrete must be reflected through Sika® products
- Freshly applied Sikafloor®-158 W Fast Barrier should be protected from damp, condensation and water for at least 24 hours

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- On very porous surfaces a second coat may be required to achieve a complete vapour barrier. Sikafloor®-158 W Fast Barrier is not to be diluted under any circumstances
- Protect from freezing at all times
- Construction joints require pre-treatment. Treat as follows:-
  - Static Cracks: prefill and level with SikaDur® or Sikafloor® epoxy resin-
  - Dynamic cracks: to be assessed and if necessary apply a stripe coat of elastomeric material or design as a movement joint

## BASIS OF PRODUCT DATA

### Designed and manufactured in Australia.

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## ECOLOGY, HEALTH AND SAFETY

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

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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