

PRODUCT DATA SHEET

Sikafloor®-158 W Fast Barrier

RAPID-DRYING HYDROSTATIC MOISTURE & INCONTINENCE BARRIER

DESCRIPTION

Sikafloor®-158 W Fast Barrier is a rapid-drying, 2-component, water based epoxy resin that chemically cures to form a permanent hydrostatic barrier.

USES

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

Applied in combination with suitable materials from Sikafloor®, SikaBond®, Sikadur®, SikaTite® & Davco® ranges.

- To stop rising moisture in concrete on grade
- To stop rising moisture on green concrete
- To bind/consolidate a weakened or damaged concrete surface
- To act as an incontinence barrier for concrete in Aged & Health Care facilities
- Can be used under Sikafloor Epoxy Flooring System

CHARACTERISTICS / ADVANTAGES

- Very Low VOC
- Very Low Moisture Vapour Transmission
1 coat = (3.7gm/m²/24hrs) as per ASTM E96
- 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 2-3hrs @ 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

Composition	2-Component, water-based, epoxy resin	
Packaging	12kg part A & 6kg part B = 18kg kit (16.66L)	
Appearance / Colour	Wet - White Cured - Transparent	
Shelf life	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.	
Storage conditions	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.	
Density	Mixed	~1.08 kg/l

SYSTEMS

Systems	Moisture Barrier & Levelling (residential & commercial) <i>Concrete (Up to 100% RH)</i> Sikafloor®-158 W Fast Barrier Sikafloor® 14 Prep N Prime Sikafloor® Levelling Compound SikaBond® 150 Premium Floor Chosen Flooring For heavy traffic or industrial situations contact Sika for system details.
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APPLICATION INFORMATION

Mixing ratio	Component A : Component B = 2:1 (by weight) Note , 10% water is added to the measured product when mixing. For example, a full kit = 16.6L requires an additional 1.6L when mixing.						
Thinner	Sikafloor 158 Fast Barrier should be diluted to a maximum of 10% with clean cool water						
Consumption	<table><tr><td>Smooth concrete surface</td><td>4-6m²/L,</td></tr><tr><td>Smooth cement based compound</td><td>4-6m²/L,</td></tr><tr><td>Mechanically profiled or very porous surface may require 2 coats</td><td>4-6m²/L, on first coat 6-8m²/L on second coat</td></tr></table> Consumption average is dependent on the absorbency of the substrate.	Smooth concrete surface	4-6m ² /L,	Smooth cement based compound	4-6m ² /L,	Mechanically profiled or very porous surface may require 2 coats	4-6m ² /L, on first coat 6-8m ² /L on second coat
Smooth concrete surface	4-6m ² /L,						
Smooth cement based compound	4-6m ² /L,						
Mechanically profiled or very porous surface may require 2 coats	4-6m ² /L, on first coat 6-8m ² /L on second coat						
Substrate temperature	+10°C min. / +30°C max.						
Substrate moisture content	▪ In-situ probe test up to 100% RH All testing/readings should conform with relevant AS/NZ standards						
Pot Life	<table><tr><td>+15°C</td><td>40min</td></tr><tr><td>+23°C</td><td>30min</td></tr><tr><td>+30°C</td><td>15min</td></tr></table> Note , Mixed Sikafloor®-158 W Fast Barrier stays liquid when pot life is over. Only mix the amount of product that will be consumed directly. DO NOT USE mixed material after pot life has expired and product begins to thicken.	+15°C	40min	+23°C	30min	+30°C	15min
+15°C	40min						
+23°C	30min						
+30°C	15min						
Waiting time to overcoating	▪ 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. ▪ It is not recommended to leave Sikafloor®-158 W Fast Barrier for long periods (days) prior to next applications as contamination is likely. ▪ 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.						
Applied product ready for use	2-3 hrs+ @ 23°C ▪ Drying is dependent on local temperature, air flow & humidity. ▪ Increased air flow (fan) will help drying speeds in cooler temperatures. ▪ Do not use gas heaters as a film may settle on the surface causing further applications to de-bond.						

BASIS OF PRODUCT DATA

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.

IMPORTANT CONSIDERATIONS

- Do not apply further coatings while Sikafloor®-158 W Fast Barrier is still wet or shows signs of white in the coating.
- 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
- On very porous surfaces a second coat may be required to achieve a complete vapour barrier
- 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

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Substrate must be sound and of sufficient compressive strength - 25 MPa with a minimum pull off strength of 1.5 MPa, should be mechanically prepared to a CSP 2, 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 or preparation method. Please refer to the Sika Work method Statement "Surface Preparation and Evaluation"

MIXING

Mix Part A with Part B at a ratio of 2:1 or full kit size of 12kg to 6kg, add the required 10% cool and clean water, then mix with an electric drill and paddle (Paint Mixer Type) at a low speed to reduce air entrapment.

A minimum mixing time of 2 minutes shall be observed.

Scrape sides and bottom of pails to ensure all contents are thoroughly mixed together then mix for a further 1 minute

Using a paint stick or similar is not sufficient.

Unmixed material applied to the floor will not cure.

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.

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

For use with Sikafloor Epoxy Systems

Sikafloor®-158 W Fast Barrier Can be used in double primer applications where required, For Self Levelling and roller Epoxy or PU flooring applications, Sikafloor®-158 W Fast Barrier must be over coated with Sikafloor 161 Roller applied epoxy before any further applications of subsequent products can be applied Sikafloor®-158 W Fast Barrier can be re coated with Sikafloor 161 Roller applied epoxy @ 3hrs @ 23degrees C, the subsequent flooring system can then be applied.

Example System Builds can be seen below:

Moisture Barrier/Primer, Penetrative sealer Sikafloor®-158 W Fast Barrier	1 x layer	Solid white reflective surface
Primer: Sikafloor 161, In either roller applied or scotch coat application	1 x layer	0.3kg/m2 Minimum (As Required)
Body Coat: Sikafloor Epoxies: 264, 264T, 263SL or Sikafloor Polyurethane: 376, 377 can now be applied	1 x layer	as required by System Data Sheet
Body Coat: Sikafloor Epoxies: 264, 264T, 263SL or Sikafloor Polyurethane: 376, 377 can now be applied	1 x layer	as required by System Data Sheet

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.

CLEANING OF EQUIPMENT

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

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.

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