

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
- Designed for use in conjunction with Sikabond® wood flooring adhesives

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
- Resist up to 4 bar negative water pressure
- Suitable for use with underfloor heating

APPROVALS / CERTIFICATES

- Water Vapour Transmission (ASTM E96)
- Green Star (VOC-SCQMD Rule 1168)
- Negative Hydrostatic Pressure - MTC test report

PRODUCT INFORMATION

Composition	2-Component, water-based, epoxy resin
Packaging	2.8kg part A & 1.4kg part B = 4.2kg kit (3.9L) 12kg part A & 6kg part B = 18kg kit (16.66L)
Shelf life	Sikafloor®-158 W Fast Barrier has a shelf life of 15 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.
Appearance and colour	Wet - White Cured - Transparent (CLEAR)
Density	~1.08 kg/l (mixed)

Volatile organic compound (VOC) content 4 grams per litre

SYSTEM INFORMATION

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)
Consumption	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
Consumption average is dependent on the absorbency of the substrate.	
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	+15°C 40min
	+23°C 30min
	+30°C 15min
	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.
Waiting time to overcoating	Over-coating with a suitable Sika® - Non-porous primer, Adhesive or a second coat of Sikafloor®-158 W Fast Barrier may be applied no sooner than 2hrs @ +23 °C. Note: Drying is dependent on temperature, air flow & relative humidity. Increased air flow will help with drying speeds in cooler temperatures.
Applied product ready for use	2hrs+

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

- For best practice it is recommended subsequent materials/systems are applied as soon as primer is dry, but no later than 24hrs. This includes second coats of Sikafloor®-158 W Fast Barrier.
- Should the 24hr time be exceeded the surface must be lightly abraded, vacuumed and wiped with clean water prior to further the applications.
- Do not allow dust to settle on the surface before next applications.
- If surface does become contaminated by dust for example, or initial coat passes 24hrs sand the surface and re-apply.
- 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.
- Freshly applied Sikafloor®-158 W Fast Barrier should be protected from damp, condensation and water for at least 24 hours.
- Sikafloor®-158 W Fast Barrier is not to be diluted under any circumstances.

- When used in conjunction with SikaBond® Wood Floor Adhesives, SikaFloor® 158W Fast Barrier must not be broadcast with sand. SikaFloor® 158W Fast Barrier is recommended for use with all polyurethane and hybrid wood floor SikaBond® adhesives.

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

EQUIPMENT

- Low speed electric drill and mixing paddle required for 18kg kit
- ~10mm nap roller

SUBSTRATE QUALITY / PRE-TREATMENT

Substrate should be fully cured, structurally sound, clean, dry, and free of surface contaminants - curing compounds, efflorescence, and dust for Eg. Surface must be porous and accept water penetration. Test 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 and area cleaned thoroughly before installation.

MIXING

4.2kg kit:

Plug the component B upright on the component A can and wait until the component B is empty, then close the cap of the component A can. After combining component A and component B in the correct ratio, shake the can thoroughly. A minimum shaking time of 1 minute is required. Re-shake is required if the mixture appearance is still inhomogeneous.

18kg kit:

Pour 12kg part A into 6kg part B (2:1) 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 2-3 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

Porous Surface

Apply 1 generous coat of SikaFloor®-158 Fast Barrier to the substrate using a 10mm nap roller, ensuring that a continuous coat is achieved over the entire surface (MUST produce a wet reflective appearance-CLEAR). On particularly porous sections where the initial coat

is absorbed immediately, re-apply directly.

Very Porous Surface

On very porous or mechanically prepared surfaces a second coat is recommended.

Application	Coatings	Result
Moisture Barrier	Minimum 1 coat	Wet reflective appearance (CLEAR)
Incontinence Barrier	Minimum 1 coat	Wet reflective appearance (CLEAR)
Substrate Consolidation	Minimum 1 coat	Wet reflective appearance (CLEAR)
Moisture Barrier + Substrate Consolidation	Minimum 2 coats	Wet reflective appearance (CLEAR)

Note:

Waiting time between coats is no sooner than 2hrs. Subsequent applications of Sikafloor Systems - Refer to relevant System Method Statement.

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	Wet reflective appearance (CLEAR)
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

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.

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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Product Data Sheet

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