

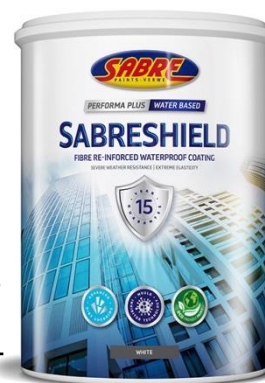


PAINT WITH CONFIDENCE

TECHNICAL DATA SHEET

PERFORMA PLUS SABRESHIELD

REVISION DATE: November 2018
(Supersedes all previous publications)



PRODUCT INFORMATION

PRODUCT DESCRIPTION

SABRESHIELD is a heavy-duty, fibre-reinforced, waterproof coating with unique dirt shedding technology, excellent flexibility and UV resistant properties to provide superior substrate protection together with unsurpassed eco-friendly properties.

PRODUCT USES

For use on correctly primed plaster, concrete and brick surfaces. Ideal for external plastered wall surfaces where a waterproof and flexible film is needed to bridge hairline cracks.

BENEFITS & FEATURES

- Contains **unique dirt shedding technology** that helps to reduce dirt retention and wash ability.
- **Eco-friendly** with carefully selected ingredients that are 70% organic, Zero in TVOC (Total Volatile Organic Compound) levels, 100% lead free, Glycol -, Formaldehyde - and APEO/NPEO free.
- Exceeds Green Building Council of South Africa (GBCSA) requirements for green star ratings.
- Retains green properties when tinted in dark colours.
- Advanced formulation provides **application properties** that allows the professional paint applicator to achieve film build with ease.
- Outstanding **flexibility** (exceeds 300% elongation) and **tensile strength** to withstand expansion and contraction and bridge hairline cracks.
- Excellent adhesion properties to bond directly onto smooth surfaces.
- Excellent **waterproofing** and **UV resistant** properties.
- Delivers up to double the film build compared to conventional acrylic paints.
- **Breathable** to moisture vapour. Allows moisture vapour within the substrate to escape through the paint film whilst preventing water from penetrating the substrate.
- Features **anti-microbiological properties** to resist fungal growth.
- Offers **financial benefits** by extending the time between costly maintenance cycles.
- This product carries a **15-year guarantee**. (See terms & conditions on www.sabre.co.za)

TECHNICAL INFORMATION

GENERIC TYPE	Carefully selected polymer blend															
FINISH	Medium sheen															
VOLUME SOLIDS	47 ± 1%															
SPECIFIC GRAVITY	± 1.25 kg/ℓ (typical)															
RECOMMENDED DFT	65 – 95microns per coat. Two coats required.															
RECOMMENDED WFT	145 – 200 microns per coat. Two coats required.															
SPREAD RATE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">WITHOUT MEMBRANE</td> <td style="width: 33%;">Smooth Surface</td> <td style="width: 33%;">Rough Surface</td> </tr> <tr> <td></td> <td style="text-align: center;">5 – 7 m²/ℓ</td> <td style="text-align: center;">3 - 5 m²/ℓ</td> </tr> <tr> <td colspan="3">WITH MEMBRANE</td> </tr> <tr> <td colspan="3" style="text-align: center;">1.5 – 2 ℓ / m²</td> </tr> <tr> <td colspan="3">Surface porosity, profile, application tools and technique will affect practical spread rates.</td> </tr> </table>	WITHOUT MEMBRANE	Smooth Surface	Rough Surface		5 – 7 m ² /ℓ	3 - 5 m ² /ℓ	WITH MEMBRANE			1.5 – 2 ℓ / m ²			Surface porosity, profile, application tools and technique will affect practical spread rates.		
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GREEN PROPERTIES	Lead Free Zero VOC (White and factory tinted colours) Glycol free (White and factory tinted colours) APEO free Formaldehyde free															
FLASH POINT	Non flammable															
COLOURS	White, Pastel, Medium and Deep colours as tinted with SABRESHIELD factory stainers. Colours limited for guarantee purposes.															
PACK SIZE	1ℓ, 5ℓ and 20ℓ															
STORAGE	Store away from direct sunlight, heat and severely cold or damp conditions. Ensure that containers are properly sealed before storage.															

APPLICATION DETAILS

PRIOR TO USE	Mix well using a flat paddle until homogeneous in colour and consistency.						
APPLICATION METHOD	Ready for use by brush and long pile / sheep skin roller. Airless spray is possible with specialist equipment and correct nozzle size.						
THINNING	Ready for use – Do not thin						
CLEANING OF EQUIPMENT	Water						
DRYING TIME (@ 23°C & 50% RH)	<table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Touch dry</td> <td style="text-align: right;">30 minutes</td> </tr> <tr> <td>Over coating</td> <td style="text-align: right;">4 hours</td> </tr> <tr> <td>Fully cured</td> <td style="text-align: right;">7 days</td> </tr> </table>	Touch dry	30 minutes	Over coating	4 hours	Fully cured	7 days
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Note: higher temperatures will accelerate the drying times (approximately halved for every 10°C increase), whilst lower temperatures will retard the drying times (approximately doubled for every 10°C decrease).

APPLICATION CONDITIONS

	MIN	MAX
Surface Temp (°C)	10 °C	40 °C
Ambient Temp (°C)	10 °C	40 °C
Relative Humidity	10%	85%
<i>or 4 °C minimum above dew point</i>		

SUBSTRATE CONDITIONS

Substrate must be clean, dry and sound for painting. **Moisture content** must be **below 14% WME**, measured using a PROTIMETER (or equally approved).



SAFETY PRECAUTIONS

Ensure good ventilation during application and curing process.

Keep out of reach from children.

In case of skin contact, wash with soap and water.

In case of eye contact rinse immediately with running water and seek medical advice if eyes are irritated.

If swallowed, do not induce vomiting and seek medical attention.

Always wear the appropriate protective clothing during product handling and application.

Refer to Material Safety Data Sheet on our website for more detailed safety information.

LIMITATIONS

- SABRESHIELD must be tinted with factory stainers that are specifically formulated for SABRESHIELD in order to retain the guarantee. Colours are limited for the guarantee.
- SABRESHIELD guarantee only applies to SABRESHIELD when applied to vertical facade surfaces.
- Spot touch-ups will be noticeable. To prevent this, paint wall surfaces from corner-to-corner.
- Due to the fibre content, take care to use the correct nozzle size during airless spray application.
- Ensure that batch-numbers are the same on all containers to ensure colour consistency.

SURFACE PREPARATION

Ensure that all surfaces are firm, dry, clean, and free of oil, grease, laitance and in accordance with above **SUBSTRATE CONDITIONS**.

Treat imperfections by mixing an approved filler with SABRE FILLERMIX and not water.

NEW WORK

CONCRETE AND CEMENT PLASTER SURFACES

Prime with SABRE AR SEALER as supplied. Allow 12 hours to dry.

BRICKWORK - FACE, R.O.K'S AND CEMENT

Where efflorescence occurs, wash down with a weak solution of SABRE SPIRITS OF SALTS, rinse with clean water and allow to dry. Apply a primer coat of SABRE AR SEALER (for friable surfaces; dilute up to maximum 10% with turpentine). Allow 12 hours to cure before over coating.

FIBRE CEMENT FASCIAS, GUTTERS AND DOWNPIPES

Fungus to be treated with SABRE ANTI FUNGUS SOLUTION before applying a primer coat of SABRE AR SEALER as supplied. Allow 12 hours to cure before over coating.

PVC AND SMOOTH SURFACES

Sand lightly to provide a key, degrease using SABRE DETERGENT SOLUTION or a solution of sugar soap. Wash down and allow to dry. Apply directly.

TIMBER SURFACES

Apply a primer coat of SABRE WOOD PRIMER diluted up to a maximum of 15% with SABRE MINERAL TURPENTINE to all bare wooden surfaces. Allow 16 hours to cure followed by one coat of SABRE PREMIUM UNIVERSAL UNDERCOAT, allow 16 hours drying.



PREVIOUSLY PAINTED SURFACES

BAD CONDITION

High pressure water jet the entire surface at a minimum pressure of **250 bar** whilst using a rotating nozzle. Adjust pressure accordingly to ensure not to damage the integrity of the substrate. Ensure to remove all flaking and chalking paint. If algae are present, treat these areas with SABRE ANTI FUNGUS SOLUTION in accordance with the product data sheet. Apply a full coat of SABRE AR SEALER as supplied. (For friable/chalky surfaces; dilute up to maximum 10% with turpentine). Allow 12 hours to cure.

GOOD CONDITION

Apply SABRE DETERGENT SOLUTION or a solution of sugar soap. High pressure wash the entire surface at a minimum pressure of **250 bar** whilst using a rotating nozzle. Adjust pressure accordingly to ensure not to damage the integrity of the substrate. Allow drying and apply directly.

ENAMEL SURFACES

The surface must be well sanded and wiped down with a clean moistened turpentine cloth. Ensure that the surface is free of oil, grease and surface contaminants. Apply a coat of SABRE PREMIUM UNIVERSAL UNDERCOAT, allowing 16 hours to cure, or SABRE G.A. ACRYLIC (water-based) allowing 4 hours to cure before over coating.

FINAL COATS

Without membrane: (2 coats)

Apply two coats SABRESHIELD at a minimum DFT of 65µm per coat, allowing 4 hours drying time between coats.

With membrane: (5 coat SABRESHIELD WATERPROOFING SYSTEM)

- Prepare and prime the surface as above or as specified by SABRE PAINTS.
- **IMPORTANT:** It is imperative that the membrane lies completely flat with no creases or wrinkles. If the membrane needs to be joined allow at least a 50mm overlap. Make use of an old stiff brush and ensure to completely saturate the membrane. Also ensure to create a 50mm capping down the sides of horizontal surfaces. The finished system **MUST** also be smooth and free of any pinholes or raised fibres.

<u>Description</u>	<u>Product System</u>	<u>Application method</u>	<u>Spread Rate (m²/ℓ)</u>	<u>Over-coating Time @ 23°C & 65% RH (HRS)</u>
1 st BONDING COAT	SABRESHIELD	By roller or brush	1.5 – 2	4
2 nd LIBERAL BEDDING COAT	SABRESHIELD	By brush only. Embed non-woven polyester membrane whilst wet, until completely saturated.		Apply coat 3 immediately
3 rd LIBERAL SATURATION COAT	SABRESHIELD	Brush only		6
4 th FINISHING COAT	SABRESHIELD	Brush only		4
5 th FINISHING COAT	SABRESHIELD	Brush only		4

DISCLAIMER

The technical information contained in this document are given in good faith and are meant to be used as a guideline by the specifier or user. Whilst we are confident about the quality of our products, we cannot accept any liability for the incorrect use or application of our products. Surface preparation forms an integral part of the scope of works and it is expected that the highest standards are maintained during surface preparation and application, to ensure that our products perform as intended. Always ensure to use the same product batch numbers, refrain from doing spot touch-ups and paint surfaces from corner to corner to prevent colour and sheen variance.

Please note that all our latest Product Data Sheets and Material Safety Data Sheets are available for viewing on our website at www.sabre.co.za

