

TECHNICAL DATA SHEET

INDUSTRIAL

MC FLOORKOTE

REVISION DATE: July 2024
(Supersedes all previous publications)



PRODUCT INFORMATION

PRODUCT DESCRIPTION

MC FLOORKOTE is a clear gloss single pack moisture curing polyurethane formulated for interior use only.

PRODUCT USES

A durable, hard and scrub resistant interior floor varnish for wood and concrete surfaces like floors and bar counters. Also suitable for overcoating existing "Sabre Acrylic Coatings" to improve hardness and washability and cleanability.

BENEFITS & FEATURES

- Hardwearing
- Good penetration
- Excellent adhesion

TECHNICAL INFORMATION

GENERIC TYPE

Moisture curing polyurethane

FINISH

Gloss

VOLUME SOLIDS

36 ± 1%

SPECIFIC GRAVITY

1.00kg/litre (typical)

RECOMMENDED DRY FILM THICKNESS

20 - 30 microns per coat. Two coats required

RECOMMENDED WET FILM THICKNESS

100 - 125 microns per coat. Two coats required

SPREAD RATE

Smooth Surface	Rough Surface
6 – 10 m ² /ℓ	6 - 8 m ² /ℓ
Surface porosity, profile, application tools and technique will affect practical spread rate	

FLASH POINT

23°C

COLOURS

Clear

PACK SIZE

1ℓ and 5ℓ

STORAGE

Limited pot life. Once opened ensure to use the entire contents within 1 hour as this product starts to cure as soon as it comes into contact with atmospheric moisture. Store unopened containers away from direct sunlight, heat and severely cold or damp conditions. Ensure that containers are unopened and properly sealed before storage.

APPLICATION DETAILS

PRIOR TO USE

Mix well using a flat paddle until homogeneous in consistency.

APPLICATION METHOD

Ready for use with brush or short pile / mohair roller

THINNING

M.C. Floorkote thinners (up to maximum 20%)

CLEANING OF EQUIPMENT

Lacquer thinners or M.C. Floorkote thinners

DRYING TIME (@ 23°C & 50% RH)

Touch dry 2 hours

Over coating 4 hours

Over coating not to be not longer than 12 hours else inter-coat adhesion may be affected, then sanding will be required.

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	40%	95%
<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 45% WME**, measured using a PROTIMETER (or equally approved). Source of moisture must not be constant and needs to be rectified.

LIMITATIONS

Do not use equipment washed with a polar solvent as this will speed up curing of material in contact with equipment. This product has a limited pot life as curing commences as soon as the contents are exposed to air and more specifically to moisture.

Yellowing will occur upon exposure to sunlight.

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.

SURFACE PREPARATION

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

WOODEN FLOORS / SUBSTRATES (Un-painted)

- Prepare wooden floors by sanding thoroughly with industrial sanding machines.
- Blackened or stained timber may be bleached by applying a solution of OXALIC ACID (500g in 5L warm water). Wear rubber gloves and refer to manufacturer safety precautions. Wash down with clean tap water and allow to dry.
- Sand lightly with fine grit sandpaper in the direction of the grain to smooth off all raised wood grain.
- Remove all dust with soft bristle brooms and ensure that the surface is free of oil, dust and surface contamination.
- Fill any holes or defects using a suitable WOOD FILLER to correct colour. Alternatively collect the saw dust from sanding and mix with the M.C. FLOORKOTE and use for filling.
- Prior to application ensure that the room is well ventilated as carrier solvents will evaporate and could cause eye and respiratory irritation.
- Reduce the first coat 10-15% with M.C. THINNERS and allow 2 - 4 hours (not more than 12 hours) drying time before over coating.
- Apply a further two coats of undiluted M.C. FLOORKOTE allowing 2 - 6 hours (not more than 12 hours) drying time between coats.
- Allow 24 hours drying before exposing the area to traffic.

WOODEN FLOORS / SUBSTRATES (Previously painted with M.C. FLOORKOTE)

- Sand thoroughly to break surface gloss until a suitable key is provided.
- Remove all dust with soft bristle brooms and ensure that the surface is free of oil, dust and surface contamination.
- Wipe down the entire surface with a "Lacquer thinners" moistened cloth and allow the thinners to flash off.
- **Please note** that SABRE M.C. FLOORKOTE cannot be applied over alkyd based products. We advise the application of a small test area if uncertain, before commencing.
- Prior to application ensure that the room is well ventilated as carrier solvents will evaporate and could cause eye and respiratory irritation.
- Apply two coats of undiluted M.C. FLOORKOTE allowing 2 - 6 hours (not more than 12 hours) drying time between coats.
- Allow 24 hours drying before exposing the area to traffic.

TO OVERCOAT SABRE ACRYLIC FLOORKOTE

- Prepare substrate as per surface preparation instructions for SABRE ACRYLIC FLOORKOTE product data sheet.
- The SABRE ACRYLIC FLOORKOTE must be fully cured for at least 3 days.
- If necessary, scrub down the entire surface with SABRE DETERGENT SOLUTION and brooms. For stubborn oil and grease contamination make use of SABRE DEGREASING SOLUTION as per product data sheet. Wash down with running water or high-pressure water jet.
- Ensure that the surface is free of oil, dust and surface contamination.
- Apply two coats of undiluted M.C. FLOORKOTE allowing 2 - 6 hours (not more than 12 hours) drying time between coats.
- Allow 24 hours drying before exposing the area to traffic.

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

SABRE PAINTS (PTY) LIMITED