

A bonding agent (one or two coats), or DPM (two coats), between a substrate and screed.

OVERVIEW

TEKCEM SF MEMBRANE is a two pack, 2 coat, solvent free epoxy resin based primer/bonder or damp proof membrane for internal use under screeds.

TEKCEM SF MEMBRANE is easy to apply and its colour allows monitoring and surety of cover. TEKCEM SF MEMBRANE is moisture tolerant and provides excellent adhesion to concrete, cementitious screeds and many other substrates including power floated concrete.

TEKCEM SF MEMBRANE allows early application of floor finishes to substrates with a measured surface moisture content of up to 97%RH.

TECHNICAL DATA

Pot life at 20°C	45 minutes
Pot life at 10°C	90 minutes
Colour base coat	White
Colour second coat	Red
Tack time at 20°C	6 hours
Vapour permeability	<5g / m ² / 24 hours
Water permeability	Impermeable
Application thickness	0.3mm approx. (per coat)
Time to hard dry at 20°C	14 hours
Coverage base coat	4m ² / kg
Coverage second coat	4.5m ² / kg
Adhesive strength	> 1.5 MPa (dependant on substrate strength)
Flexural strength	> 50 MPa
Compressive strength	> 50 MPa
Water absorption	<0.2% after 7 days

BENEFITS

- Provides a two coat DPM to damp substrates.
- Provides an excellent bond between substrate and screeds (one or two coats, can include quartz sand).
- Coloured to assist with coverage and progress.
- Low viscosity, easily applied.
- Works with a of a wide range of surfaces.
- Can be applied up to 97% RH.
- Allows early installation of floor finishes, reducing project times.
- Allows the use of thinner screeds without reinforcement.

COVERAGE

Pack sizes	6kg or 12kg
Per kg base coat	4m ²
Per 6kg unit base	24m ²
Per 12kg unit base	48m ²
Per kg second coat	4.5m ²
Per 6kg unit second coat	27m ²
Per 12kg unit second coat	54m ²

HEALTH AND SAFETY

Avoid contact of the material with skin and eyes. Wear gloves and goggles. Wash off splashes immediately with soap and water. Please refer to Material Safety Data Sheet for additional Information. TEKCEM SF MEMBRANE must be applied strictly in accordance with the manufacturers instructions. Please dispose of packaging and waste responsibly.

SHELF LIFE

Twelve months minimum in original unopened containers and stored under correct conditions. Store in dry conditions at between 10°C and 25°C.

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SURFACE PREPERATION

The surface of the substrate to be coated must be sound, clean and free from dust, laitance, oil and other contaminants. The substrate must be surface dry with no pooling water.

Suitable mechanical treatment such as vacuum grit blasting is recommended to ensure the removal of contaminants and to provide a 'key' for the TEKCEM SF MEMBRANE.

The compressive strength of the substrate should be a minimum of 25 MPa.

Moisture testing of the substrate in accordance with BS8203 must be carried out on new concrete floors or screeds. A surface moisture reading of up to 97% RH can be accommodated by TEKCEM SF MEMBRANE. If readings exceed this figure, then the floor must be allowed to dry out further.

MIXING

Pour the entire contents of the curing agent into the resin in its container and thoroughly mix, preferably by mechanical means, for no less than 2 minutes, until a uniform colour and consistency is achieved.

APPLICATION

TEKCEM SF MEMBRANE can be applied by squeegee or roller. Apply a base coat of white TEKCEM SF MEMBRANE at a nominal rate of 4.0m²/kg. An "open" or porous substrate may require a higher application rate. Ensure that an even and complete application is achieved. If applying second coat, do so after 2 hours, when the surface is tack free but within 24 hours. Apply a coat of red TEKCEM SF MEMBRANE in the same way as the first, but at a nominal rate of 4.5m²/kg.

OVERLAYMENT

Overlay with cementitious screed or levelling compound following the application method recommended for that material.

One coat bonding agent

Overlay while the (white) TEKCEM SF MEMBRANE remains tacky. Once the TEKCEM SF MEMBRANE has fully hardened it will provide poor adhesion and debonding of the overlayment may result. If this occurs, remedial action will be needed.

Two coat bonding agent DPM

Overlay while the second coat (red) TEKCEM SF MEMBRANE remains tacky.

Two coat bonding agent or DPM with sand

Whilst the second coat (red) TEKCEM SF MEMBRANE remains tacky, broadcast a full blind of an appropriate dry aggregate into the surface (e.g. 1-2mm clean dry quartz or silica sand) at an application rate of 2kg/m² ensuring that all of the TEKCEM SF MEMBRANE is covered

Once the TEKCEM SF MEMBRANE has fully cured, remove any excess aggregate by sweeping and vacuuming. Overlay with cementitious screed or levelling compound following the application method recommended for that material. It is important to follow the application method recommended by the manufacturer of the overlayment and this will include the choice between the methods outlined above.

JOINTS

Stable joints or cracks should be suitably repaired before applying TEKCEM SF MEMBRANE. Movement or expansion joints must not be overcoated with TEKCEM SF MEMBRANE and should be treated with suitable jointing systems and continued through the floor finish.

EQUIPMENT CLEANING

Clean equipment with TEKCEM SOLCLEAN as soon as practically possible. Cured material will be difficult to remove from tools.

LIMITATIONS

Do not apply at temperatures of 3°C or less or if there is a risk of such temperatures within 12 hours of application. Do not apply to surfaces with standing water.

WARNING

The information provided in this datasheet corresponds to the best of our expert knowledge and experience. Whilst it is true and accurate to the best of our knowledge, it may contain information which is unsuitable under certain circumstances since materials, site conditions and method of application vary with each application.

TEKCEM LTD cannot be held responsible for any loss or damage due to incorrect use or from the possibility of variations in working conditions and/or workmanship beyond our control. The user alone is responsible for any consequences deriving from the product.

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SETTING NEW LEVELS

The Screed Development Centre
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Full installation guide can be found on our website:

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