

Tekcem

Tekbond SF



Providing a primer / bonder between a variety of substrates and levelling screeds or underlayments.

OVERVIEW

Tekbond SF is a two pack, solvent free epoxy resin based primer / bonder for internal use with levelling screeds and self-levelling or self-smoothing underlayments. Tekbond SF is easy to apply and its colour allows monitoring and surity of cover.

Tekbond SF is moisture tolerant and provides excellent adhesion to concrete, cementitious screeds and many other substrates including power floated concrete.

Tekbond SF allows early application of floor finishes to substrates with a measured surface moisture content of up to 90% RH.

TECHNICAL DATA

Pot life at 20°C	45 minutes
Pot life at 10°C	90 minutes
Colour	Grey or white
Tack free time at 20°C	6 hours
Vapour permeability	<5g / m ² / 24 hours
Water permeability	Impermeable
Application thickness	0.3mm approx.
Time to dry at 20°C	14 hours
Coverage	3m ² / kg
Adhesive strength	> 1.5 MPa (dependent on substrate strength)
Flexural strength	> 50 MPa
Compressive strength	> 50 MPa
Water absorption	< 0.2% after 7 days

BENEFITS

- Provides an excellent bond between substrate and levelling screeds.
- Solvent free, very low odour.
- Coloured to assist with coverage and progress.
- Low viscosity, easily applied.
- Works with a wide range of surfaces and moisture.
- Allows early installation of floor finishes, reducing project times.
- Allows the use of thinner screeds without reinforcement.

COVERAGE

Pack sizes	6 kg or 12 kg
Per kg	3m ²
Per 6kg unit	18m ²
Per 12 kg unit	36m ²

SETTING NEW LEVELS

The Screed Development Centre
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SURFACE PREPARATION

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 and the surface moisture content should not exceed 90% RH. Suitable mechanical treatment such as vacuum grit blasting is recommended to ensure the removal of contaminants and to provide a 'key' for the Tekbond SF.

The compressive strength of the substrate should be of 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 90% RH can be accommodated by Tekbond SF. 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, until a uniform colour and consistency is achieved and for no less than 2 minutes.

APPLICATION

Tekbond SF can be applied by brush or roller. For large areas it can be spread with a squeegee and finished with a roller.

Apply a coat of Tekbond SF at a nominal rate of 3 m²/kg. An "open" or porous substrate may require a higher application rate. Ensure that an even and complete application is achieved.

OVERLAYMENT

Overlay with cementitious screed or levelling compound following the application method recommended for that material while the Tekbond SF remains "tacky".

Once the Tekbond SF is fully hardened it will provide poor adhesion and debonding of the overlayment may result. If this method is used correctly the Tekbond SF will provide a moisture suppressant layer to enable floor

finishes to be laid provided that the substrate moisture content does not exceed 90% RH.

Alternatively

Whilst the Tekbond SF remains fully uncured (wet) broadcast a full blind of an appropriate dry aggregate into the surface (eg 1-2mm clean dry quartz or silica sand) at an application rate of 2 kg/m² ensuring that all of the Tekbond SF is covered.

Once the Tekbond SF has fully cured remove excess aggregate by sweeping and vacuuming. Overlay with cementitious screed or levelling compound following the application method recommended for that material.

This method should ensure a better bond between the substrate and the overlayment but may also compromise the moisture suppressant properties of the Tekbond SF.

JOINTS

Stable joints or cracks should be suitably repaired before applying Tekbond SF.

Movement or expansion joints must not be overcoated with Tekbond SF 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 and note that Tekbond SF will only provide a moisture suppressant layer for applied floor finishes if the substrate surface moisture content does not exceed 90% RH.

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.

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.

Tekbond SF 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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