Bond for Life.®

Technical Data Sheet

SiegelBond WF50



Direct Stick Timber Flooring Adhesive

Product Description

SiegelBond WF50 is a high-performance single part timber hybrid flooring adhesive, specifically formulated for easy of trowelling and superior flooring performance and service life. Recommended for bonding timber and engineered flooring systems or prefinished multi-layer wooden floors.

Product Advantages

- SiegelBond WF50 is one component product use with exceptional consistency and easy trowelling.
- SiegelBond WF50 can be used repeatedly if container stored correctly until its contents are fully used
- SiegelBond WF50 is easy to trowel and non-slumping meaning trowel ridges hold firm.
- SiegelBond WF50 is easy to clean of prefinished timber surfaces.
- SiegelBond WF50 has a rapid strength build up and short curing time.
- SiegelBond WF50 is non-hazardous and low VOC and GBCA compliant.
- SiegelBond WF50 give as strong, elastic, and permanent bond to most wood flooring types.
- SiegelBond WF50 is solvent and isocyanate free and is non-hazardous.

Application

SiegelBond WF50 is suitable for bonding all solid timber and engineered timber flooring systems to concrete, plywood, cured leveling compound, epoxy membranes, particle board and radiant heated subfloors. Also suitable for bonding acoustic underlays as an intermediate layer between subfloor and flooring system.

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Consumption Estimate

Parquetry	Trowel | V Notch 3mm	Coverage | 15 -18 m2 per pail
Overlay Flooring	Trowel | V Notch 4-5mm	Coverage | 8 -14 m2 per pail
Strip Flooring	Trowel | V Notch 4-5mm	Coverage | 8 -14 m2 per pail
Engineered Flooring	Trowel | V Notch 4-5mm	Coverage | 8 -14 m2 per pail

Technical Information

Type	Silane Terminated Polymer	Colour	Light Brown
Maximum Tensile Strength	ASTM D412 1.6 N/mm2	Adhesive Sag	ISO 868 0%
Shore A Hardness	ASTM C661 37	Elongation at Break	ASTM D412 230%
Low VOC Compliance	GBCA VOC compliant Yes	VOC content	GBCA - ASTM D3960-05 25 g/L
Shelf Life	12 months	Application Temperature	+10°c to +40°c
Service Temperature	-20°c - +80°c	Tack Free Time	60 minutes
Working Time	(25°c & 50% RH) 40 minutes	Density	1.50 g/m3

Concrete Subfloor Surface Preparation

- Ensure the subfloor surface is structurally sound, flat, smooth, clean, with no indentations and anti-adherents.
- Subfloor must be free of dust, dirt, grease, wax, loose paint, oil, sealers of any type, curing compounds, bond breakers, asphaltic residue, liquid adhesive remover, strippers, chemicals, or any other foreign substances that can potentially affect bonding. Cleaning the subfloor of loose particles with an industrial vacuum cleaner is recommended.
- If direct applying the adhesive to the subfloor, it must be flat to maximum 3mm over 3 meters, otherwise it will increase the risk of hollow spots and poor adhesion under the timber flooring.
- Any existing coating or adhesives must be completely removed. Mechanical treatment (e.g. shot blasting, grinding or sanding) may be required to achieve subfloor conditions mentioned above.
- It is recommended to assess slab moisture. If the slab is more than 6% moisture content measured with a concrete impedance moisture meter or more than 85% in-slab relative humidity, then additional means of protecting the floor from slab moisture is needed. Refer to moisture vapour protection properties of SiegelProof PRO2K and the SiegelPrime P12 information sheet. Please discuss technical requirements with Siegel for any floors with high moisture or relative humidity readings
- Radiant heated subfloors should be turned off 24 hours prior to and during installation to prevent premature curing of the adhesive.
- Recommended air temperature during floor installation – between 10°C - 40°c and relative humidity between 40% and 80%, subject to the requirements specified by wood flooring manufacturer.

Timber Subfloor Surface Preparation

- For use over particleboard, all surfaces should be rough sanded, including sanding flat all joints. Ensure the surface is clean, dry, sound and does not squeak prior to laying the timber flooring.
- For use over clean plywood all joints should be sanded flat. Ensure the surface is clean, dry, sound and does not squeak prior to laying the timber flooring.

Application Direction

- Open the pail and remove the bag. Cut bag's corner and trowel out as appropriate. Once the bag is opened, the contents of the bag should be used within a reasonable time.
- Spread the adhesive with the correct notched trowel, apply uniformly on the subfloor. Avoid adhesive pools and excessive adhesive thickness by passing the trowel evenly through the adhesive at a 45-degree angle.
- Floor installation is by a full adhesive bed and to the flooring manufacturer's instructions.
- A minimum 80% adhesive contact of the adhesive to the board is recommended for adhesive only performance.
- Place heavy objects to hold the flooring firmly in place during the curing time. If boards are bowed preventing adequate contact then it may be necessary to sort out and not lay such boards.
- When installing near a solid object or wall, leave the necessary room for expansion as outlined by the flooring manufacturer. Installing wood too tight against a stationary object will not allow room for normal wood expansion, which may cause a failure.
- If wedges or weights have been used during the installation to hold wood in place while adhesive dries, remove wedges after initial setting of the adhesive (approximately 2 hours) to allow for normal expansion of wood. Failure to remove wedges can cause the wood flooring to buckle and pop off the subfloor.
- Restrict foot traffic for a minimum of 12-16 hours. Wait a minimum of 24 hours before sanding and polishing.
- SiegelBond can be cleaned up with acetone or mineral spirits when wet, noting that cured adhesive can only be removed mechanically.

- 80% minimum coverage is required when using this product as an adhesive only.
- Always lift a board at the beginning of and during installation to ensure coverage is meeting the above-mentioned contact coverage requirements.
- This product can provide protection from slab moisture vapour but does not eliminate all possible moisture related or installation related issues (e.g. water leaks, wet mopping, hydrostatic head or puddles).
- This product should not be exposed to water or alcohol cleaners before it is completely cured.

Limitations

- Do not use on wet, dusty, contaminated, or friable substrates.
- Do not dilute the adhesive.
- Resistant only to the following: water, dilute acids, diluted caustic solutions, temporarily resistant to fuel, animal fats and oils, not resistant to organic acids, concentrated caustic solutions.
- Will not prevent damage to flooring system induced by excessive moisture transmission due to environmental factors like water leaks.

Health & Safety

May cause an allergic skin reaction. Causes serious eye irritation. Wear protective gloves and eye protection. IF ON SKIN: Wash with soap and water. IF IN EYES: Rinse continuously with water for several minutes. If skin irritation or a rash occurs: Seek medical advice/attention. If eye irritation persists: Seek medical advice/attention. Wash contaminated clothing before reuse. Keep out of reach of children. Contains aminosilane. May produce an allergic reaction. Safety data sheet available on request. For further health and safety information, check the latest safety data sheet.

Product Disclaimer

Since the use and application of this product is beyond our control, we cannot be held responsible for product field performance. The information presented above is the result of our considerable experience with this product but is not to be construed as a performance warranty. In every case we recommend that the customer conducts their own testing and accordingly determines, to their satisfaction, its suitability for their purpose under the operating conditions in which they will use the product/s.

For additional information, phone our Customer Service Centre on AU (02) 4858 1771 or NZ (09) 951 9552