Bond for Life.®

Technical Data Sheet

SiegelBond T45



Heavy Duty Flooring Adhesive

Product Description

SiegelBond T45 is a high strength single part hybrid polymer adhesive for a wide range of direct stick applications of tiles, marble, stone, vinyl, linoleum, rubber, artificial grass and a wide range of resilient and rigid flooring systems. This heavy-duty adhesive has very low emissions and is ideal for challenging areas, such as those with high temperatures, high moisture levels and water exposure applications. Also suitable for bonding LVT to timber subfloors, moisture barriers and other low porosity subfloor types.

Product Advantages

- SiegelBond T45 is formulated to be exceptionally smooth and easy to trowel.
- SiegelBond T45 is non-shrinking and non-slumping meaning trowel ridges hold firm.
- SiegelBond T45 has a rapid strength build up and short curing time.
- SiegelBond T45 is non-hazardous and low VOC and GBCA compliant.
- SiegelBond T45 give as strong, elastic, and permanent bond to most flooring systems.
- SiegelBond T45 is solvent and isocyanate free and is non-hazardous.
- SiegelBond T45 once cured provides a permanent moisture resistant film.
- SiegelBond T45 has excellent acoustic suppression properties.

Application

SiegelBond T45 is suitable for bonding most resilient flooring system to most common subfloors including concrete and timber. Suitable flooring systems include luxury vinyl tiles, rubber tiles (up to 10mm), rubber granulated matting, linoleum tiles (up to 4mm), indoor entrance mats, artificial grass, outdoor or sports floor coverings and is suitable for us with underfloor heating systems.

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Consumption Estimate

PVC / smooth	Trowel | V notch 1.6mm	Coverage | 4m2 / kg
Rubber / textured	Trowel | V notch 2.4mm	Coverage | 2.5m2 / kg
Linoleum / course	Trowel | V notch 3mm	Coverage | 1.6m2 / kg
Tiles and Stone Products	Trowel | V notch 5mm	Coverage | 0.65m2 / kg

Technical Information

Type	Silane Terminated Polymer	Colour	White
Maximum Tensile Strength	ASTM D412 1.60 N/mm2 ASTM	Adhesive Sag	ISO 868 0% ISO 868
Shore Hardness A	ASTM C661 35 ASTM	Elongation at Break	ASTM D412 280%
Low VOC Compliance	GBCA VOC compliant Yes	VOC content	GBCA - ASTM D3960-05 25 g/L
Shelf Life	12 months	Application Temperature	17-27°c*
Service Temperature	-20°c - +90°c	Tack Free Time	40-50 minutes
Working Time	(25°c & 50% RH) 45 minutes	Density	1.45
Loadable	24 hours	Joint Sealing	Joint Sealing 24 hours

*Check flooring manufacturers recommended application temperature range

AU (02) 4858 1771 | NZ (09) 951 9552
technical@siegeladhesives.com

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 17°C - 27°c and relative humidity between 40% and 65%, subject to the requirements specified by wood flooring manufacturer.

Application Direction

- Remove the lid and remove the foil liner. Once the liner is removed the whole contents of the pail should be used within a reasonable time.
- Apply an even coat of adhesive onto the substrate using a suitable notched trowel and allow it to dry partially according to the application amount, the indoor climate, the absorbency of the substrate, and the type of floor covering.
- Do not apply more adhesive than can be laid with good transfer onto the back of the covering within the working time.
- Install the floor covering within a short open time and ensure the adhesive ridge is pressed out. Rub in or roll over and apply weight against any flooring deformation.
- Ensure that air is not trapped under the covering. Allow the area to rest for 20 minutes and then roll over again and rub in at edges and seams.
- Restrict foot traffic for a minimum of 12-16 hours. Wait a minimum of 24 hours allowing full traffic.
- SiegelBond can be cleaned up with acetone or mineral spirits when wet, noting that cured adhesive can only be removed mechanically.

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