



Technical Data Sheet S-Bond Flex
Ver. 5.0 February 2021

S-Bond Flex

One-part SiMP high-elastic strength wood-flooring adhesive
EMICODE EC 1^{PLUS} & EUROFINS IAC GOLD certified



DESCRIPTION

S-Bond Flex is a ready-to-use, one-component, high-elastic strength wood-flooring SiMP – Silyl Modified Polymer adhesive. S-Bond Flex provides moisture protection by assuring low vapor permeability as well as sound insulation. The product does not contain isocyanates, is solvent- and water-free and has very low emission according to EMICODE EC 1^{PLUS} & EUROFINS IAC GOLD protocols.

Certified according to:

EMICODE EC 1^{PLUS} protocol
EUROFINS IAC GOLD protocol
VOC Emission class label A+

Conform to:

EN 14293 Adhesives for bonding parquet subfloor
LEED iEQc 4.1 ; SCAQMD Rule 1168 ; BAAQMD Reg 8 Rule 51
CARB VOC levels regulation
ISO 16283 – Acoustic sound reduction

AREAS OF APPLICATION

S-Bond Flex is suitable for full surface bonding of multilayer engineered pre-finished parquet or solid wood floors with or without tongue and groove as well as chipboards to cement screeds, fast setting screeds, anhydrite screeds, or on pre-existent wood, ceramic tile, and marble flooring. It is preferable the use of stable woods. It is also suitable in combination with under-floor heating systems. The adhesive is suitable for all species according to UNI EN 13556.

FEATURES

- SiMP - Silyl Modified Polymer
- Ready-to-use, no mixing required
- Environmentally friendly – Free of isocyanates and solvents. odorless
- Very low emissions according to EMICODE EC1 Plus protocol
- Easy to apply with excellent ridge holding

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- Rapid grab and high filling capacity
- Reduces transversal stress between the wood floor and the substrate
- Elastic, footfall-sound-dampening adhesive
- Suitable for subfloor heating
- Residues on woods and hands can be easily removed

TECHNICAL DATA

Appearance	Thixotropic paste
Color	Oak
Chemical nature	SiMP – Silyl Modified Polymer
Curing Mechanism	Moisture-curing
Density [g/cm ³] (NPT method 06) (23°C and 50% RH)	ca. 1.71
Skin time [min] (NPT Method 17) (23°C and 50% RH)	ca. 50
Tensile strength [N/mm ²] (ISO 37 DIN 53504)	ca. 1.3
Shear strength [N/mm ²] (wood-wood; DIN 14293)	ca. 1.3
Tear strength [N/mm] (ISO 34-1)	ca. 3.1
Water vapour permeability WVT [g/hm ²] (DIN 52615) <0,69	< 0.69
Acoustic sound reduction L' _{nt,w} [dB] (ISO 16283-2; ISO 717-2) 43*	43*
Application temperature [°C]	From +5 to +40
Plank setting time [h]	ca. 1
Trafficability [h]	ca. 12
Sandpapering [days]	ca. 2.5
Consumption [kg/m ²]	Between 0.9 and 1.4
Operative temperature [°C]	From -10 to +60
Temperature Resistance [°C]	From -40 to +100

*43dB @63HZ According to Report Mc782-01F01 Sound Insulation from Renzo Tonin Associates.



APPLICATION

As provided by sector regulations, the parquet must be installed on a clean, firm, solid, compact floor. The surfaces to be treated must be perfectly clean, dry and free of dust and grease.

In cement screeds, the screed must be properly treated and separated from the rest of the floor base with a suitable vapor barrier with a high edge on the surrounding walls. If necessary, sand the screed and remove the dust with a vacuum cleaner. On anhydrite screeds, after sweeping, remove dust with a vacuum cleaner.

If you must use U-Primer 150 to consolidate cement screeds with low compaction, avoid leaving a surface film of primer. If necessary, dilute with up to 30% solvent to improve penetration into the support. In the case of anhydrite screeds, the use of a coarse sandpaper is recommended to open the pore, vacuuming the dust and subsequently apply the primer coat thinned with solvent, avoiding a superficial film. Proceed with gluing after ensuring that the solvent present in the primer has evaporated. Do not glue if more than 24 hours have elapsed since the application of the primer.

In pre-existing ceramic and marble floors, make sure that the surface is free of oily substances, greases or acid or basic residues and cleaning detergents. If these characteristics are lacking, then carefully clean and dry the surface prior to installation of the parquet flooring; adhesion testing is recommended prior to application. On pre-existing wooden floors, once the adhesion of the new parquet to the previous one has been verified, proceed to sand the surface of the wood to remove the varnished layer and carefully remove the dust with a vacuum cleaner.

Apply at a temperature between 5°C and 40°C and humidity between 40% and 80%. The optimum temperature is between 15°C and 25°C. Apply with a humidity of the cement screed at a maximum of 2% (1.7% for floors with radiant heating), measured by a carbide hygrometer. In the case of anhydrite screed, the maximum allowed is 0.5%.

Once the bucket is open, remove the aluminum foil that covers the product and keep it apart. Apply the adhesive with a dented spatula, distributing it evenly to obtain a good "wetting" of the surface. Proceed with laying the wood within 40 minutes. In the case of partial use of the bucket, cover the adhesive with the original aluminum foil, making sure that it adheres to the product, and close the bucket with a lid. The bucket should be used in a relatively short period of time after opening. The product must not be diluted in any way.

Parquet flooring must be treated according to industry regulations. Place the wooden planks in position with the necessary pressure to ensure good contact between the wood and the adhesive. Leave a border of approximately 1 cm between the parquet and the wall.



CLEANING OF EQUIPMENT AND PERSONAL PROTECTIVE MEASURES

Clean the tools used with acetone or solvent. When the adhesive has not yet hardened, it can be removed using paper or a cloth. Once hardened, the product can only be removed mechanically. Avoid skin contact by using latex, rubber or polyethylene gloves. If it comes in contact with the skin, remove immediately and wash with soap and water.

PACKAGING

PE pail 16 kg
Foilbag 7 kg - 2 pieces in a pail

STORAGE AND SHELF LIFE

S-Bond Flex can be stored for 12 months in its original packaging (unopened container) between 10°C and 25°C in a cool, dry place. The storage temperature should not exceed 25°C for extended periods of time. Keep away from wet areas, direct sunlight and heat sources.

GENERAL INFORMATION

The information contained in this technical data sheet is to the best of our knowledge correct, being based on our knowledge and experience to date and cannot be used as a guarantee, due to the various different materials present on the market and the fact that the application conditions are not under our direct control and supervision. NPT srl, however, guarantees constant product quality. NPT srl, has the right to modify or up-date this technical data sheet according to requirements. Customers are kindly requested to verify that they are in possession of the latest version.

ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET BEFORE USING THE PRODUCT