

ECO BOND Flooring



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One part SiMP high-elastic strength wood-flooring adhesive
Solvent and Isocyanate free
EMICODE EC1 PLUS

Description

ECO BOND Flooring is a ready-to-use, Isocyanate and Solvent free, high-elastic strength wood-flooring adhesive based on a Silyl Modified Polymer. ECO BOND Flooring is characterized by

1. Acting as a **vapour barrier** by providing very low vapour permeability
2. Supplying **sound insulation** due to a reduced impact sound pressure level
3. Having an **anti shock system** that guarantees strength and adhesion under real working conditions
4. Having **very low VOC emissions** certified by EMICODE EC1 PLUS

Certifications:

EMICODE EC1 PLUS

Compliant to:

EN 14293 Adhesives for bonding parquet subfloor

LEED iEQc 4.1 ; SCAQMD Rule 1168 ; BAAQMD Reg 8 Rule 51

DIN EN 13556 (EC Normative:Requisites for wood flooring adhesives)

CARB VOC levels regulation

ISO 16283 – Acoustic sound reduction

Areas of Application

For full surface bonding of multilayer (2 or 3 layers) pre-finished parquet, engineered wood floors with tongue and groove as well as chipboards on cement screeds. It is preferable the use of stable woods. It is also suitable for under-floor heating systems. The adhesive is suitable for all species according to the UNI EN 13556.

Advantages

- Ready-to-use, no mixing required
- Easy to apply with excellent ridge holding
- Low viscosity and smooth consistency; easy trowelling
- Rapid grab and high filling capacity

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UNI EN ISO9001:2015
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- Reduces stress on the substrate: the elastic, material-compatible adhesive reduces transverse stress between the wood floor and the substrate
- Elastic, footfall-sound-dampening adhesive
- Suitable for subfloor heating
- Residues on flooring can be easily removed
- Easy to remove from hands
- Very low emission
- No hazard risk

Technical data

Appearance	Thixotropic paste
Colour	Oak
Chemical nature	Silyl Modified Polymer
Curing mechanism	Moisture-curing
Tack-free time [min] (NPT Method 17) (23°C and 50% RH)	ca. 45
Tensile strength [N/mm ²] (ISO 37 DIN 53504)	ca. 1,2
Shear strength [N/mm ²] (wood-wood; DIN 14293)	ca. 1,3
Tear strength [N/mm] (ISO 34-1)	ca. 2,1
Water vapour permeability WVT [g/hm ²] (DIN 52615)	<0,69
Acoustic sound reduction L'_{nt,w} [dB] (ISO 16283-2; ISO 717-2)	43 ¹
Application temperature [°C]	from +5 to +40
Plank setting time [h]	ca. 1
Trafficability [h]	ca. 12
Fit for habitation [days]	ca. 2
Sandpapering [days]	ca. 2,5
Operating temperature [°C]	from -10 to +60
Temperature resistance [°C]	-40/+90

¹ 43dB @63HZ According to Report Mc782-01F01 Sound Insulation from Renzo Tonin Associates.

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Application

Surface preparation

As foreseen by sector regulations, the parquet must be installed on a clean, firm, solid, compact and dust-free screed without traces of varnish, powder, grease or oil, etc.

Cement Screeds

The screed must be appropriately treated and isolated from the rest of the floor foundation with a suitable vapour barrier with a high border on the surrounding walls. If necessary abrade screed and eliminate dust with a vacuum cleaner.

Anhydrite screeds

After sweeping, eliminate dust with a vacuum cleaner.

Pre-existent flooring in ceramic and marble

Ensure that the surface is free from oily substances, grease or residues of acid or basic detergents due to cleaning. If these characteristics are lacking, then suitable cleaning and careful drying of the screed should be effected before installation of the parquet flooring. Pre-adhesion tests are strongly advisable before proceeding.

Pre-existent wood flooring

After the bonding of the wood flooring to the screed has been verified, proceed to sandpaper the surface of the wood to remove the varnished or polished layer and carefully remove any dust with a vacuum cleaner.

Application conditions

Ambient Temperature

Apply at a temperature between 5°C and 40°C. The optimal temperature is between 15°C and 25°C.

Ambient Humidity

Apply at a humidity between 40% and 80%.

Screed Humidity.

Cement. Maximum content allowed = 2% (1.7% for under-heated floors), measured by a Carbide hygrometer.

Anhydrite. Maximum content allowed = 0.5%.

Finishing indications

Once the pail has been opened, remove the aluminium foil covering the product and conserve. Apply the adhesive with a dented trowel, distributing it evenly to obtain a good 'wetting' of the surface. Proceed with the laying of wood within 40 minutes. In the case of partial use of the pail cover the adhesive using the aluminium foil, ensuring that it adheres to product, and close pail with lid. The pail must be used up in a relatively short period of time once opened. The product must not be diluted in any manner.

Coverage

From 0.9 to 1.4 kg/m², according to the superficial condition of the support.

Wood flooring installation

The parquet wood flooring must be treated according to sector regulations. Position the wood elements in place with the necessary pressure to ensure a good contact between the wood and the adhesive. Leave an approximate 1cm border between the parquet and the wall.

Cleaning of equipment

When the adhesive has still not hardened, it can be removed from the trowel using some paper or a cloth. Once it has hardened, then removal must be effected mechanically. Thanks to the

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harmless and non-toxic formulation, any waste from cleaning can be slightly thrown away in the normal waste disposal.

Personal protective measures

Avoid skin contact using latex, rubber or polyethylene gloves.

Packaging

Aluminium bag: Net content 2x7 kg in PE pail

Storage

ECO BOND Flooring can be stored in its original and unopened packaging at 25°C, the product maintains its properties for 12 months. Avoid damp areas and temperatures over 35°C.

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