



# EcoSiMP Flooring

Eco-friendly wood flooring adhesive  
with low environmental impact

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## Description

EcoSiMP Flooring is a ready-to-use, one part, solvents free, elastic silane adhesive, which does not contain or release any substances harmful to health or to the environment, suitable for all types of wood parquet flooring. EcoSiMP Flooring is distinguished by its health protection and low environmental impact.

## Areas of Application

For full surface bonding of 2-3 layer pre-finished parquet, large and small planks, lamparquet, mosaic, industrial, laminates, on cement screeds, fast-setting screeds, anhydrite screeds, on pre-existent wood, ceramic tile, marble and marble tile flooring.

## Advantages

- Thanks to the reduced environmental impact, it is the ideal product for the consumer who is attentive regarding ecological issues and indoor pollution. It is also indicated for the installation of bio-parquet, coupled to bio-screeds, in green-architecture and for health conscious operators.
- Does not contain isocyanates; does not develop methanol, nor harmful VOC; does not contain Tin or other heavy metals; does not contain substances which are toxic, harmful or dangerous to the environment; does not contain solvents, phthalates, amines.
- No danger symbols, 'R' risk phrases or warning phrases on labeling.
- Ready-to-use, no mixing required.
- Low viscosity and smooth consistency: easy trowelling.
- Rapid hardening once applied: reduces parquet installation time.
- No reactive frothing nor shrinkage allows a planar installation of wood flooring planks.
- Thanks to its permanent elasticity it follows the movement of the wood.
- No staining of the prefinished parquet surface.
- No problems with cleaning of hands (in the case of accidental contact).
- The wide adhesion spectrum guarantees bonding on old flooring.
- The phono-absorbent properties reduce the noise of trampling feet.
- Particularly indicated for under-heated flooring.

## Certifications

- Certified DIN EN 14293 – EC Normative: Requisites for wood flooring adhesives.
- Emissions matching the EMICODE EC1 (GEV Producers' association on emission control).



DESIGN AND PRODUCTION  
BY CERTIFIED QUALITY SYSTEM  
UNI EN ISO 9001:2008



**NPT**  
S.r.l.  
NEW POLYURETHANE TECHNOLOGIES

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## Technical data

<b>Appearance</b>	Thixotropic paste
<b>Colour</b>	Ivory (shade may vary)
<b>Chemical nature</b>	SiMP (Silylated Polymer)
<b>Curing Mechanism</b>	Moisture-curing
<b>Shore A</b> (23°C and 50% r.h.; DIN 53505)	ca. 45
<b>Density [g/cm<sup>3</sup>]</b> (NPT method 06) (23°C and 50% r.h.)	ca. 1,7
<b>Tack-free time [min]</b> (NPT Method 17) (23°C and 50% r.h.)	ca. 140
<b>Tensile strength [N/mm<sup>2</sup>]</b> (ISO 37 DIN 53504)	ca. 1,0
<b>Lap shear [N/mm<sup>2</sup>]</b> (wood/wood; DIN 14293)	ca. 2,2
<b>Lap shear [N/mm<sup>2</sup>]</b> (wood/concrete; DIN 14293)	ca. 1,8
<b>Creep resistance [mm]</b> (DIN EN 1902)	0
<b>Application temperature [°C]</b>	from +5 to +40
<b>Plank setting time [min]</b> (23°C and 50% r.h.)	Ca.60
<b>Trafficability [h]</b> (23°C and 50% r.h.)	ca. 24
<b>Fit for habitation [days]</b> (23°C and 50% r.h.)	ca. 2
<b>Sandpapering [days]</b> (23°C and 50% r.h.)	ca. 3,5
<b>Operating temperature [°C]</b>	From -10 to +60
<b>Temperature Resistance [°C]</b>	-40/+90, for short period up 120

## Information on colour

In line with the environment-friendly product profile, EcoSiMP Flooring does not contain colouring. The ivory colour is due to the natural origin of the materials. Therefore, different batches of EcoSiMP Flooring may differ due to the inconstancy of the natural components' colour.



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## Waste disposal

Large adhesive remains should be disposed of as not dangerous special refuse.

## Recycling of packaging

The steel packaging (pail and lid) must be disposed of in a recycling centre, by depositing it in the correct waste collection, or delivering it free of charge to a differentiated collection point (managed by the local authorities). Before depositing the packaging, please ensure that it is dry and empty, with the minimum possible of adhesive residue.

## 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.



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Proceed with the laying of wood within 50 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 0.8 to 1.3 kg/m<sup>2</sup>, according to the superficial conditions of the support.

### Application

#### Parquet 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 1 cm border between the parquet and the wall.

### Cleaning of pre-finished parquet

#### Unhardened Adhesive.

Delicately remove the adhesive using a clean cloth, cotton wool or soft paper. Remove any remaining surface opacity by gently dabbing the surface with a clean cloth or cotton wool dampened with alcohol. Preliminary tests must always be carried out to verify parquet surface compatibility (use spare parquet slat) in order to avoid permanent opacity.

#### Hardened Adhesive.

Remove the adhesive delicately with a finger nail or a piece of rigid plastic. Do not use metal or sharp objects. Remove any remaining surface opacity by gently dabbing the surface with a clean cloth or cotton wool dampened with alcohol. Preliminary tests must always be carried out to verify parquet surface compatibility (use spare parquet slat) in order to avoid permanent opacity.

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

### Personal protective measures

Avoid skin contact using latex, rubber or polyethylene gloves. The product releases 1% w/w of ethyl alcohol. The amount released in the air during use, even in confined spaces, does not have a significant effect on health and a negligible interaction with the human metabolism. All the same, it is a good rule to air rooms during use.

### Packaging

Metal pail:

net content 16kg



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## Storage

EcoSiMP Flooring can be stored for 12 months in its original packaging (unopened container) at 10°C-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



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