



# S-Bond FORCE

1

## One-part solvent and isocyanate-free hard-elastic adhesive

### Description

S-Bond Force is a ready-to-use, isocyanate and solvent -free, hard-elastic wood-flooring adhesive based on a Silyl Modified Polymer. With rapid grab, elevated hardness and high bonding strength ensures firm adhesion of timber floors.

### Areas of application

For full surface bonding of multilayer (2 or 3 layers) pre-finished parquet, solid and engineered wood floors with tongue and groove as well as chipboards on cement screeds, fast setting screeds, anhydrite screeds, on pre-existent wood, ceramic tile, marble and marble tile flooring. 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

- One-part adhesive, solvent and isocyanate -free
- Very low emission and odor -free; compliant with EMICODE EC 1 PLUS
- Ready-to-use, no mixing required.
- Hard-elastic, firmly bonds all wood types to screed
- Very high tensile strength
- Suitable for underfloor heating
- Hard elastic adhesive



ISO 9001

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

2

<b>Appearance</b>	Thixotropic paste
<b>Colour</b>	Oak
<b>Chemical nature</b>	Silyl Modified Polymer
<b>Curing mechanism</b>	Moisture-curing
<b>Tack free time [min]</b> (NPT Method 17) (23°C and 50% RH)	ca. 50
<b>Tensile strength [N/mm<sup>2</sup>]</b> (ISO 37 DIN 53504)	ca. 4,0
<b>Shear strength [N/mm<sup>2</sup>]</b> (wood-wood; DIN 14293)	ca. 3,7
<b>Tear strength [N/mm]</b> (ISO 34-1)	ca. 0,8
<b>Application temperature [°C]</b>	from +5 to +40
<b>Plank setting time [hrs]</b>	1
<b>Trafficability [hrs]</b>	12
<b>Fit for habitation [days]</b>	2
<b>Sandpapering [days]</b>	2-3
<b>Operating temperature [°C]</b>	from -10 to +60
<b>Temperature resistance [°C]</b>	-40/+90, for short periods up to 120



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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/m<sup>2</sup>, according to the superficial condition of the support.



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## Application

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

## Personal protective measures

Avoid skin contact using latex, rubber or polyethylene gloves.

## Packaging

Plastic pail; net content 15 Kg

## Storage

Conserved in original and unopened packaging at 25°C, the product maintains its properties for 612months. 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.



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