

Code	Description	Size	Colour
18994	Soudal SMX-30 Plus	600ml	Brown
18999	Soudal SMX-30 Plus	6kg	Brown
18998	Soudal SMX-30 Plus (3x6 kg Packs)	18kg	Brown

1. Description

Soudal SMX-30 Plus is a ready-to-use one component, water and solvent free flooring adhesive which cures by means of a chemical reaction within the adhesive. Once fully cured an elastic and non-shrinking layer is formed, which is resistant to moisture and heat.

2. Characteristics

- Ready-to-use
- Easy to apply, one component system.
- Forms stable peaks when applied with a notched trowel or spreader comb.
- Water and solvent free to help eliminate wood deformations
- Elastic
- Very low emission (VOC): EC1 PLUS
- 0% isocyanate.
- Contains no water
- Free of isocyanates
- Rapid cure and build up of final bond strength
- High final bond strength (according to DIN 281)
- Remains permanently elastic
- Suitable for underfloor heating

3. Technical Data

Base	SMX Polymer
Curing System	Moisture Curing
Consistency	Paste
Colour	Light brown
Specific Gravity (DIN 53479)	Ca. 1,69 g/cm ³
Brookfield Viscosity (mPa.s)	Ca. 56.000 mPa.s
Open time at 21°C and 50% RH	Ca. 30 - 45 minutes
Adjustability time at 21°C and 50% RH	Ca. 45 minutes
Set to load bearing	At least 2 hours
Sanding/Finishing after	At least 12hours
Paintable after	At least 12 hours
Hardness Shore :	52
Shear strength (ISO17178) wood/wood	Ca. >2N/mm ²
Application Temperature	15°C to +25°C
Temperature resistance	-40°C to +90°C (cured)
Total Solids Content	100% (solvent free)
Application Rate	Depending on the subfloor • 1000 – 1400 g/m² when using the 'B11' Soudal MS Flooring Trowel (#19001) a notched trowel • 750 – 1000g/m² when using a B3 notched trowel
Substrate Condition:	Do not apply when Relative Humidity is above 75%

*This varies according to ambient conditions such as temperature, humidity, substrate etc

4. Applications

Soudal SMX-30 Plus is solvent-free, water-free universal wooden flooring adhesive based upon MS Polymers. Suitable for indoor bonding of all types of wooden floors such as solid, stab, pre-finished, and on-end wooden flooring, wood plank up to 180mm, wood block and laminates.

Also suitable on porous and non-porous surfaces such as anhydrite (calcium sulphate), chipboard, OSB Board, engineered flooring. Soudal SMX-30 Plus is suitable for subfloors with a residual moisture content of up to 6% without the use of moisture barrier (mosaic, chipboard); and is extremely suitable for bonding moisture sensitive wood onto moderately porous surfaces. It is effective on floors using underfloor heating.

5. Packaging

600ml Sausage, Plastic bucket 6kg (net content), 3x6kg foil bags (net content)

6. Shelf Life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°.

7. Building Product Information

Manufactured By Soudal NV

Distributed By Soudal Ltd

Relevant Building Code Clauses

Note: This product is an adhesive and on its own is not within the scope of the NZ Building Code. However, when it is used as part of an internal floor, wall, or ceiling system, or with other building elements that must comply with the NZ Building Code, and it is used in accordance with that material supplier's specification and Soudal's technical literature, it will contribute to meeting the requirements of the following clauses:

- B1 Structure: Performance clauses B1.3.1, B1.3.2, B1.3.3 (a, b, j, q), B1.3.4
- B2 Durability: Performance clauses B2.3.1 - (b) not less than 15 Years, (c) not less than 5 years
- F2 Hazardous Building Materials: Performance clause F2.3.1

Contribution to compliance With NZBC

Performance B1.3.1, B1.3.2, B1.3.3 (a, b, j, q) B1.3.4: When used as an adhesive this product contributes to meeting the loading requirements that bonded lining elements are subjected to, as a result of self-weight, imposed in-use gravity loading, impact, and the effects of creep and shrinkage over time.

Performance B2.3.1 (b) 15 years and (c) 5 years: This product achieves these durability requirements and will remain serviceable for 15 years, or more, when installed and maintained in accordance with the relevant Soudal product technical documents. Soudal maintains production & management systems in accordance within its ISO9001:2015 Quality Management System.

Performance F2.3.1: This product meets this requirement when used and applied in accordance with Soudal's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Soudal Product Technical Data Sheet and product Safety Data Sheet soudal.co.nz for further information if required.

8. Application Instructions

Surfaces

Substrate: Before installation of the wooden / timber flooring, the substrate should be checked to ensure it is suitable. Check the moisture content throughout the entire thickness of the substrate with a carbide or electric hygrometer. Note that an electric hygrometer only gives indicative values. The acceptable

moisture content must be as recommended by the flooring manufacturer. For application on concrete subfloors, (moisture content up to 2% is acceptable for sand/cement substrates and 0.5% for anhydrite, measured with a carbide hygrometer. For substrates with underfloor heating the values are resp. max. 1,5% and 0,3%). Smooth surfaces like anhydrite should be roughened, and if necessary the top layer should be removed.

Soudal SMX-30 Plus should be applied to a flat, rigid, clean, permanently dry, dust and grease free surface which do not contain any loose parts, paint, wax, oil or other contaminants. Irregularities such as remaining concrete levelling, old adhesives may adversely affect adhesion. These need preferably to be removed mechanically for example by sanding or blasting. Concrete surfaces that are not sturdy enough should preferably be removed. Residue of old adhesives may affect the adhesion and must be removed mechanically. Loose or damaged surfaces must be repaired before the application of the adhesive. If the subfloor is not even its needs to be levelled with a suitable levelling material.

Smooth surfaces like anhydrite should be roughened and disposed of the top layer. Sanded subfloors must be vacuum cleaned with an industrial vacuum cleaner.

When installing a wooden floor on top of marble, terrazzo or ceramic tiles they must be first cleaned with caustic soda or another suitable cleaner. Once cleaned, rinse the tiles thoroughly with plenty of clean water. Ensure the floor is completely dry before applying the Soudal SMX-30 Plus.

A preliminary compatibility test is recommended on every surface.

Wooden Flooring:

The wooden flooring must be acclimatised for several days in the area where it is to be installed. Leave the wooden flooring in its original packaging (remove plastic film) until installation to avoid any deformation. Check before installation that the moisture content of the wood is as recommended by the supplier, (generally 9% +/- 2%). If the humidity of the wood is more than 11% installation is not recommended. Allow a gap of 1 to 1.5 cm around the perimeter of the laid wood flooring, including any columns or structures, which penetrate the floor.

Maximum Dimension Wooden Flooring	Maximum width x min. Thickness (mm x mm)
Massive	180 x 20
Engineered	240 x 14

It should be noted that the wider a solid timber flooring system is, then the more liable it is to "cupping" through environmental changes over time.

Application

- Make sure surfaces are clean and free of grease and dust.
- Soudal SMX-30 Plus should be acclimatised to room temperature before installation.
- Apply the adhesive to the surface using a 4mm notched trowel or similar. Do not apply more to the surface that can be covered with wooden flooring within 20 minutes.
- Slide the wooden flooring onto the adhesive layer and tap into place or tap down with a rubber hammer.
- A minimum of 80% contact is required to ensure perfect adhesion. Loading the wooden flooring with weights will improve the final bond strength. Wait at least 12 hours before sanding and finishing the wooden flooring.

Cleaning can be cleaned before curing from tools and material with Soudal Solvent Cleaner, Soudal Tough Wipes or white spirit. Cured product can only be removed mechanically.

Recommendations

- Never install to substrates, which are not protected against possible rising damp.
- Do not apply the adhesive at temperatures below 15°C or above 25°C.
- Minimum temperature of the substrate should be at least 15°C.
- Do not apply the adhesive when the relative humidity is above 75%
- Never install onto a substrate which contains too much moisture or onto substrates with a higher humidity value than recommended by the wood supplier.
- Never install wood which is too dry (<7% humidity). This can expand at higher humidity and cause board deformation.
- Do not install if the walls and ceilings of the area are not dry (eg. After plastering or painting etc.)
- Do not dilute the adhesive.
- Never apply on a substrate which is not protected against rising damp. If necessary apply a moisture sealer such as Soudal EPR-31P Epoxy seal.

Soudal Limited Warranty Statement

– Soudal SMX-30 Plus product codes 120625, 176772 and 18999.

Soudal Limited warrants the adhesive performance of Soudal SMX-30 Plus when used to bond timber flooring to concrete slabs in interior applications. This bonding can be carried out without a vapour barrier provided:

- The moisture contents of the substrates are within industry norm ranges (proof of test required)
- The concrete slab is protected against rising damp
- There are no residual contaminants remaining on the concrete floor slab
- All aspects of the installation follow the supplier's recommendations

The warranty is limited –

- To the adhesive performance only not the behaviour of substrates post installation
- To the replacement of the adhesive required to remedy
- To the cost of the replacement timber flooring boards required to remedy
- No liability will be accepted by Soudal Ltd for any labour that may be required to remedy

Using Soudal SMX-30 Plus is acknowledgement of acceptance of the above warranty terms and conditions.

9. Health and Safety Recommendation

- Apply the usual industrial hygiene precautions.
- Wear protective gloves.
- Please refer to MSDS for more detailed information.

Remark

*The directives and data contained in this documentation is provided in good faith and accurately reflect Soudal's knowledge when its products are properly stored, handled and applied under normal conditions in accordance with Soudal's recommendations. In practice, the diversity of the materials, substrates, environments, site conditions, product storage, handling and application are such that no warranty can be given in respect to the merchantability or fit for purpose, of any product. All users must determine the product suitability for their purposes through testing. This technical data sheet and product properties may change without notice so users, suppliers and retailers of Soudal products should always check that the data sheets they have are the latest. To the maximum extent permitted by law, Soudal disclaims all warranties in relation to either the manufacture, storage and end use of the product. All orders are accepted subject to our current terms of trade. **If any clarification is required, please contact Soudal Technical Services or email info@soudal.co.nz.***

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