



ADHESIVE SYSTEMS FOR TIMBER FLOORS

2024

SOUDAL

SOUDAL

SOUDAL BUILDING THE FUTURE

Soudal, based in Belgium, is Europe's leading independent manufacturer of sealants, adhesives and construction foams.

Our research and development department in the new R&D center with more than 30 highly trained employees, constantly develops and optimizes existing products and, in cooperation with the market, develops new and even more powerful products for innovative solutions.


External testing institutes support us and constantly monitor our products. System checks and regular external monitoring ensure a consistently high level of quality consistency. Our consultants are happy to assist with professional recommendations and advice.




Family Business



Founded by
Vic Swerts
in 1966



100%
family-owned



Long term
growth strategy

Internationalisation



79

Affiliates



+4.000

Workforce



140

Countries



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WOOD

TIMBER

TIMBER IS ALIVE

Planks made of timber will always shrink or expand. This is mainly due to fluctuations in the moisture content of the environment. Because the timber will mainly move in the width, it is important to allow the parquet to acclimatise to the environment where it will be mounted. Moreover it is also advisable to carry out the work at a stable temperature of 15 to 25 ° C, with a relative humidity (RH) of 50 to 60%.

Different types of timber naturally have a different movement pattern. Very popular in the past years is multilayer parquet, specially developed so it is far less sensitive to fluctuations in temperature and air humidity.

Also the type of tree is very important in the decision which adhesive should be used. Some will move more due to the influence of humidity than others or do contain more resin making them harder to adhere to. Some require the choice for a water-free, hard adhesive on PU base, for other you better use an elastic adhesive based on hybrid polymer.

Whatever the challenge, Soudal will help you in achieving the right result with its many years of experience.

SUBFLOOR

THE BASE FOR A GOOD RESULT

Primering

The subfloor needs to be dry. The residual moisture of a standard screed cannot exceed 1.5%. For anhydrite screed this is even 0.3%. Applying a moisture screen to prevent residual moisture causing damage. Primers are also a well known cure for subfloors who are highly porous. At one hand they prevent a too high consumption of adhesive, at the other hand to improve the adhesion on non-porous subfloors. Sandy or powdery subfloors can be made stronger with a deeply penetrating primer.

Leveling

For optimal bonding of the timber to the subfloor, on a length of 2m, a maximum tolerance of 2mm, (or 4mm with application of an extra woodern subfloor) is advised. When tolerances exceed that value, the application of an adequate self-leveling product is advised.



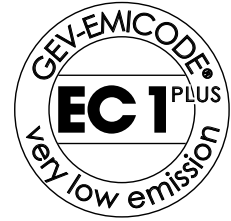
TIMBER

SOUDAL TIMBER FLOOR ADHESIVES

ADHESIVE RESEARCH YOU CAN TRUST

Soudal was one of the first to develop a parquet adhesive based on hybrid polymer. It had invested numerous efforts in Research & Development, searching for a solution for the professional installer of timber flooring who were in need of an adhesive that combines an optimal workability with a very universal application on common surfaces and timber flooring types.

Today hybrid polymer adhesives are a well known segment in this market. Being water-, solvent- and isocyanate free. The adhesive contains no hazard labelling. It can be used for a wide variety of timber floors like multilayer-, massive hard-& softwood and this on a wide variety of subfloors (including existing tile flooring, screed, concrete, anhydrite, timber,...) in most cases without any pre-treatment needed! The high elasticity of the adhesives allows the timber to 'work' more, without losing strength. This way the adhesive take care of an optimal distribution of the forces in the timber by dividing it over the entire subfloor.



- Identification of VOC's in products is based on high-quality analysis techniques in accredited laboratories, such as gas chromatography and mass spectrometry.
- EMICODE classifies adhesives into EC1+ - EC1 or EC2 (low to higher concentration) depending on the amount and the type of VOC's emitting measured after 3 days and 28 days after application.



A CHOICE FOR THE ENVIRONMENT AND INDOOR AIR QUALITY

Soudal is concerned about the environment and every person getting into contact with its adhesives, trying to optimize the experience where we can. Our adhesives are specially formulated to preserve as much as possible the environment and the installer's health. The Soudal hybrid polymer and waterbased adhesives don't carry any hazardous substance.



HYBRID TIMBER FLOOR ADHESIVES



Parketvloeren Michiels Schillemans / SMX-30 Plus

HYBRID TIMBER FLOOR ADHESIVES

PREMIUM USABILITY AND DURABILITY

SMX[®]-30 Plus and SMX[®]-20 Plus are spearheading the Soudal range of timber adhesives and are trusted in the hands of thousands of installers all across the globe.


All hybrid adhesives excel in performance and ease of use. They are easy to spread, they have an excellent form stability of the beads and are fast curing which are all important for a perfect finished timber floor. Soudal hybrid timber floor adhesives can all be used in combination with floor heating and cooling.

Good to know, this range of parquet adhesives can generate a noise reduction up to 14 dB.*



HYBRID TIMBER FLOOR ADHESIVES



CHARACTERISTICS		
Chemical curing	✓	✓
Open time (21°C and 50% RH)	30 - 45 minutes	25 - 30 minutes
Adjustability time (21°C and 50% RH)	10 - 15 minutes	25 - 30 minutes
Walked on after	2 hours	8 hours
Timber can be sanded after	12 hour	24 hours
Shear strength	> 2N/mm ²	> 1.5N/mm ²
Does not contain solvents	✓	✓
Does not contain isocyanate	✓	✓
Does not contain water	✓	✓
Acoustic properties	✓	✓
Ready to use	✓	✓
Timber Flooring		
Solid tongue & groove	✓	✓
Parquetry	✓	✓
Engineered flooring	✓	✓
Laminate	✓	✓
Bamboo	✓	✓
Subfloor		
Concrete slab	✓	✓
Self levelling compound	✓	✓
Plywood	✓	✓
Particle board	✓	✓
Existing tile	✓	✓
Existing timber flooring	✓	✓
Acoustic mat - tested & approved for 	✓	✓
Floors w/ underflooring heating	✓	✓
Best for very wide boards (up to 200mm)	✓	
Best for most demanding jobs	✓	

HYBRID TIMBER FLOOR ADHESIVES

SMX[®]-20 Plus



SMX[®]-20 Plus is an elastic hybrid polymer based timber floor adhesive suitable for full surface adhesion of multilayer timber as well as the smaller types of solid hard & softwood.

Apply directly on porous and non-porous substrates. Can be used in combination with floor heating. Complies to ISO 17178 & EN 14293.

BENEFITS

- Ready to use
- 100% water-, solvent-, and isocyanate free
- Solid parquet width max 160 mm, thickness min 14 mm
- Multilayer parquet width max 240 mm, thickness in 14 mm
- Perfect for most flooring timbers
- Suitable for underfloor heating



600ml Foil Pack	130243
16 Kg	132261
18 Kg (3 x 6 Kg)	132271

Technical data: SMX[®]-20 Plus

Color	Light brown
ISO 17178 Class	Elastic
Consumption*	1000-1400 g/m ²
Open Time**	25-30 min
Light foot traffic**	min 8 hrs
Sanding-ready**	min 24 hrs

* depending subfloor and used throwel
 ** at conditions: 21°C & 50% RH



HYBRID TIMBER FLOOR ADHESIVES

SMX[®]-30 Plus



This hybrid polymer based timber floor adhesive combines a long open time of 30-45 minutes with a very fast curing time of 12 hours taking care of a job well-done and finished in no-time.

SMX[®]-30 Plus combines a high elasticity with a high 2,5 MPa end strength, making it the best choice for solid wood parquet, in its widest variants, as well as mosaic and parquet strips. It is also perfect to use with exotic wood types. Use it on all porous and non-porous subfloors, even directly on tile flooring. Works in combination with floor heating. Complies to ISO 17178 & EN14293.

BENEFITS

- Ready to use
- 100% water-, solvent- & isocyanate free
- Does not shrink
- Solid parquet max 200 mm width, min 16 mm thick
- Multilayer parquet max 300 mm width, min 16 mm thick
- Suitable for underfloor heating
- Very fast curing



600ml Foil Pack	120625
18 Kg (3 x 6 Kg)	120626

Technical data: SMX[®]-30 Plus

Color	Light Oak
ISO 17178 Class	Hard-elastic
Consumption*	1000-1400 g/m ²
Open Time**	30-45 min
Light foot traffic**	min 2 hrs
Sanding-ready**	min 12 hrs

* depending subfloor and used throwel
 ** at conditions: 21°C & 50% RH



ADHESIVE INDICATOR

SOUDAL PARQUET ADHESIVES						
PARQUET TYPE				(h)EN	SMX-20 Plus	SMX-30 Plus
width (mm)	thickness (mm)	length (mm)	Tongue & Groove			
Subfloor		Mosaic parquet		-	1	4
		Panel material		-	4	4
PLANK FLOOR, SOFTWOOD				EN 13990	4 until 160mm	4 until 200mm
70-192	18-34	>1500	T&G			
PLANK FLOOR, HARDWOOD				EN 13629	1 until 160mm	4 until 200mm
≥110	≥10	≥900	T&G			
PARQUET STRIPS, TYPE 1				EN 13226	1 until 160mm	4 until 200mm
≥40	≥14	≥250	T&G			
PARQUET STRIPS, TYPE 2				EN 13228	4	4
40-100	8-14	200-2000	T&G			
BURGUNDY PARQUET				-	6	1 + nailing
60-180	6-10	≥400	T&G			
ENGINEERED PARQUET (TOP ≥ 2,5MM)				EN 13489	4 until 240mm	4 until 300mm
20-25	130-200	1800-2400	T&G			
VENEER PARQUET (TOP < 2,5MM)				EN 14354	4	4
20-25	130-200	1800-2400	T&G			



- 4 = Best option
- 1 = Possible in certain circumstances
- 6 = not possible

ACCESSORIES

HEAVY DUTY BARREL SAUSAGE GUN

Soudal manual foilpack gun. Can be used with all foilpack products.



112802

TROWELS

Professional quality notched trowel adhesive spreader. Available in two sizes: Small bead size (Nr 3) and Large beads size (Nr 11).

- German made
- High quality
- Comfortable



N11	112945
N3	112946

SWIPEX

Swipex is a cleaning wipe ideal for removing all fresh sealants, adhesives and foam from surfaces, hands and tools. It also removes grease and oil. The formula contains skin conditioning agents to avoid excessive skin dehydration. Safe to use.



50 Wipes	128470
100 Wipes	113551



TIMBER & PARQUET SEALANT

A high-quality, plasto-elastic one-component sealant based on acrylic dispersion that cures to form an extremely durable seal. Once cured can be sanded along with the timber and can be coated or varnished to match the gloss level of the timber flooring. This ensures the sealant is almost unseen.



	125587 - 290ml Cartridge: Ash/Maple		125591 - 290ml Cartridge: Beech
	125588 - 290ml Cartridge: Cherry		127174 - 290ml Cartridge: Dark Grey
	127175 - 290ml Cartridge: Light Grey		125590 - 290ml Cartridge: Light Oak
	125589 - 290ml Cartridge: Medium Oak		125595 - 290ml Cartridge: Merbau
	125592 - 290ml Cartridge: Mocha		132208 - 290ml Cartridge: Pearl White

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