



TECHNICAL DATA SHEET

MONOSIL

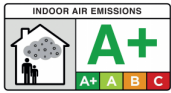
Single component silane-terminated adhesive

DESCRIPTION

Single component silane-terminated moisture-cure adhesive. MONOSIL does not contain water, solvents, isocyanates, epoxy or amino compounds or heavy metals (tin) and, consequently, does not bear any health or risk warnings or symbols. The EC1 classification certifies that the emission of volatile organic compounds is very low both during application and when the floor is in use. MONOSIL has excellent adhesion characteristics on all subfloors as well as permanent elasticity. These characteristics make it the ideal adhesive for laying pre-finished multi-layer wood floors and traditional solid wood floors with average sized planks on any subfloors, with or without underfloor heating. MONOSIL does not harm the coating of pre-finished wood floors and for this reason does not leave any marks; other characteristics of this adhesive are the ease with which it can be worked, the high level coverage, resistance to water and the capacity to absorb sound leading to a considerable improvement in the comfort of the environment with regard to noise levels. **Being certified EMICODE EC1PLUS, MONOSIL may apply for the awarding of the EQ credit for Indoor Environmental Quality – Low-Emitting Materials of the new international certification standard LEED v4.**



12 Kg



TECHNICAL DATA CHEMICAL-PHYSICAL CHARACTERISTICS at 20°C (indicative values not constituting product specifications):	
Open time (max. registration time) (minutes)	45-60
Open time (time for the formation of the surface skin) (minutes)	120-150
Tensile strength UNI EN 14293 (N/mm ²)	> 1,5
Elasticity (mm)	> 2,0
Temperature resistance °C	from -40 to + 90
Ready for traffic (hours)	24
Interval before sanding (days)	5
Application method	Trowel
Average coverage (g/m ²)	800/1000
Stability and storage (in original, unopened containers stored in a cool, dry place) (months)	12
Standard packaging (Kg)	12

APPLICATION

For lasting and effective adhesion, the subfloor must satisfy the following requirements:

- moisture below or equal to 2% measured in depth with a carbide hygrometer;
- absence of hygroscopic lightening material in the screed and adequate insulation if these materials are contained in the underlying layers;
- suitable surface finish, not too "rough" and not too smooth;
- absence of crumbling or flaking parts;
- absence of moving cracks or other obvious faults.

Before laying the floor, it is also necessary to check that the moisture of the wood corresponds with that of the environment. Apply MONOSIL using a suitable trowel, taking care to "work" in any impurities on the subfloor that could cause separation. Lay the planks applying pressure and tapping them to allow them to settle properly. This operation is very important for all types of glue, but in the case of this category of adhesives, it is essential. Do not wet the ends or the sides of the planks with MONOSIL. To lay wood floors on pre-existing floors, the surface must be degreased and roughened using appropriate metal scraper pads. To lay the wood floor on anhydrite screeds, the top surface must be removed using abrasive disks (16 or 24 grit), the dust removed and the treatment completed using Vermeister single component polyurethane or two component epoxy primer or nanostructured acrylic primer. The same procedure (with the exception of the removal of the top surface which must only be carried out if really necessary) also applies for all screeds made with pre-mixed self-levelling cement mortar, to reduce their power of absorption which could compromise the hardening of the adhesive.

Once installation has been completed, wait at least 5 days under normal conditions before sanding and then finishing the wood floor; this interval may be longer as a result of many factors (room temperature and humidity, species of wood, etc.). Although MONOSIL does not contain water, before proceeding with the finishing, the moisture content of the wood must be measured and must balance that of the environment; in any case, it should be between 7 and 11%. When installing pre-finished flooring, wait at least 3 days under normal conditions before using the floor. This interval may vary according to room temperature and humidity. Partially used containers must be covered with the special anti-oxidising under cap. The presence of a thin layer of hardened adhesive does not compromise the characteristics of the underlying adhesive.

NOTES

If the product is stored for long periods at temperatures of over 30°C, the period of stability is reduced; at temperatures of over +40°C the product may be subject to thickening.

Do not apply the product below 10°C or above 30°C.

Product for professional use.

Store above freezing.

Safety precautions. Keep the product in a tightly closed, upright container in a cool place away from sources of heat. The product is classified and coded in compliance with EC Directives/regulations concerning hazardous substances. The information for the user is given in the relevant safety sheet. Empty containers or those containing slight traces of the product must be disposed of in accordance with local regulations. Vermeister S.p.A. guarantees that the details given in this sheet are provided to the best of the company's technical-scientific knowledge and experience; however, the company cannot be held responsible in any way for the results obtained with the products as the conditions of application are beyond the company's control. It is always advisable to check the suitability of the product to each specific circumstance. This sheet cancels and replaces all previous editions.

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