ADESIVER HERCULES

Two-component epoxy-polyurethane hypoallergenic adhesive for wooden floors, free of solvents

ELASTIC ISO 17178

¤Description

ADESIVER HERCULES is an odorless two-component adhesive for wooden floors with a very low sensitization level, free of solvents, water and isocyanic resins. ADESIVER HERCULES is epoxy resins based with a MW > 700. This adhesive is classified as "ELASTIC" according to ISO 17178. It has outstanding traction resistance, workability and coverage. Also suitable for gluing wooden floor onto underfloor heating and cooling system.¤ **Destinations:** Suitable for laying pre-finished and pre-calibred wooden floor as well as any other type of timber flooring including boards without having to prepare a bed of wood laths.

¤Characteristics

Mixture ratio	9/1
Application temperature	+10°C ÷ +25°C
Application	notched trowel n. 5
Pot-Life	2 h (1)
Hardening	48-72 h (1)
Coverage	1000-1600 g/m² depending on the subfloor
Colour	oak, walnut
Classification (ISO 17178)	ELASTIC
Tensile strength (ISO 17178, p.4.3)	>1 N/mm2
Shear strength (ISO 17178, p.4.4)	>1 N/mm2
Shear elongation (ISO 17178, p.4.4)	>1,0
Storage stability	1 year (2)
Packaging	10 kg (9+1)
Tool cleaning	DILUENTE DS (before the hardening of the adhesive)

1 *at 20°C and 65% R.H.*
2 *in original sealed containers at temperatures between +10°C and +25°C*

¤Laying conditions

◊ ***Subfloor***

dry, clean, no-dust creating, not too rough.

◊ ***Humidity of Subfloor***

2,0% max with cement subfloors.

1,7% max with radiant heating cement subfloors.

0,5% max with anhydrite subfloors

0,2% max with radiant heating anhydrite subfloors

◊ ***Wood humidity***

9%±2

¤Other uses

Adhering of heat and sound insulating panels (cork, expanded polyurethane, rock-wool).

Adhering of tiles on asbestos cement and chipboards.

Adhering of wood and building materials (ceramics, stoneware-marble tiles) on to metal bases.

¤How to use

After mixing the two components, spread ADESIVER HERCULES with a notched trowel uniformly on a clean subfloor embodying possible dust present on it. Proceed with the laying ensuring that the wood tiles are put together properly and gently hammered so as to make the adhesive adhere well to the whole surface. Perfect adhesion to the subfloor is ensured if at least 65% of each wooden component is in direct contact with the adhesive.

In presence of dust-creating and porous subfloors, we recommend to apply first one coat of PRYMER A, PRYMER PUB 77, PRYMER FAST 500, PRYMER 100 or PRYMER SF 1105 (see technical data sheets). After the complete drying of the treatment proceed with the application of the adhesive.

In presence of humid subfloors, we recommend to apply first PRYMER PUB 77, PRYMER FAST 500, PRYMER 100, PRYMER SF 1105, PRYMER 100, PRYMER EPOX WETT or PRYMER WB 328 S (see technical data sheets). We do not recommend to dip the heads of the tiles into the ADESIVER HERCULES while laying them. If need be, dip the heads of the tiles into a vynilic (PARKETTKOLL) adhesive which has a very strong wood to wood adhesion avoiding also the typical "skidding" of the tiles.

If the wooden floor has to be laid on glassy surfaces (ceramic tiles, enamelled tiles, polished marble, etc.), remove and clean the surface from dust, grit, glue and waxes. Apply by cloth the adhesion promoter DILUENTE APA following the correct application time (see technical data sheet), than apply ADESIVER HERCULES . The subsequent sanding can be operated after 3-4 days according to the atmospheric and the wooden floor's hygrometric conditions.

In case of anhydrite subfloors, thoroughly sand using 24 or 36 grit sandpaper; remove dust and apply primer using PRYMER SF 1105 (do not dilute) or PRYMER PUB 77 with DILUENTE DMC 50 thinner at a ratio 70:30. Apply ADESIVER HERCULES and the next sanding should take place after 3-4 days, depending on the atmospheric conditions and humidity level of the wood species used.

When laying down pre-lacquered wooden floors, if a wood piece gets accidentally dirty with glue, clean immediately with DILUENTE PULIPAR or PULIPAR W (see technical data sheets). We recommend, while using ADESIVER HERCULES, to use all the personal prevention system.

Preparation of synthetic mortars

ADESIVER HERCULES can be used as levelling compound for synthetic mortars preparation. ADESIVER HERCULES mixed with DILUENTE DS (see relative TDS for checking correct ratio) can be added with QUARZ (see relative TDS) until you obtain a

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synthetic mortar. The suggested mixing ratio is: 9:1 (ADESIVER HERCULES) :1 (DILUENTE DS) : 10 (QUARZ).

Note:

Do not apply ADESIVER HERCULES in presence of high evaporative fluxes as they cause the increase of pH of the substrate (pH>=10) and they cause problems with the screed/ glue/wood system. In case of doubt apply one coat of PRYMER SF 1105 (see technical data sheet) and after 24 hours proceed with the application of ADESIVER HERCULES.

Shipping notes.

If the storage temperature exceeds +25°C, the time of storage is noticeably reduced, at temperatures above +50°C there is a real risk of thickening/gelatinization of the product even in the original packaging. For transport by sea it's advisable to use the special thermo-containers.

Label elements

Comp.A

· Safety data sheet available on request.· Contains . May produce an allergic reaction.

Contents:CASHEW SHELL OIL ;

Comp.B

· Causes serious eye irritation.· Causes skin irritation.· May cause an allergic skin reaction.

· Wash thoroughly with water after use.· Wear protective gloves / protective clothing / eye protection / face protection.· IF ON SKIN: Wash with plenty of soap and water.· If skin irritation or rash occurs: Get medical advice / attention.

Contents:Reaction products of tall oil fatty acids with tetraethylenepentamine ;

Web link

Be sure to have the latest version of this technical data sheet downloadable also from the following link:

http://www.chimiver.com/tds/EN_ADESIVER_HERCULES.pdf