

Adesilex G19 Two-Part PU Adhesive

Product Code: RC13116

Description

Adesilex G19 is a two-component adhesive made from an epoxy-polyurethane polymer, Part A, and a special hardener, Part B.

It is an extremely strong, tough, elastic, adhesive for general purpose use, particularly suitable for non-absorbent substrates or moisture-sensitive substrates (wood, metal, ceramic, stone, resin, PVC, rubber, etc.).

For use on floor in interior and exterior applications.

Application

Surface Preparations

Substrates must be dry, level, sound, mechanically strong, free of dust, loose particles, cracks, paints, wax, oil, rust, traces of gypsum or other products that can interfere with bonding.

The regulations of each country must be strictly followed.

Commonly, the moisture content must be as follows: max. 2%-2,5% for cementitious substrates, max. 0,5% for gypsum or anhydrite-based substrates.

It is essential to make sure there is no rising damp present. Un-bonded screeds laid over lightweight concrete or over insulation and screeds laid directly onto earth must be separated by a vapour barrier to prevent rising damp.

Acclimatisation

Before starting the installation, make sure that the floor or wall covering and the substrate are acclimatised to the recommended temperatures and R.H.

Mixing the adhesive

The two components of Adesilex G19 are supplied in pre-measured proportions:

- Part A: 9.4 parts by weight;
- Part B: 0.6 parts by weight.

Blend the two components together with a mechanical mixer until an even paste is obtained. Setting times and pot life depend on the ambient temperature (see table). Setting times are much longer if the temperature is lower than +10°C.

Note: the resin (component A)/catalyser (component B) ratio must be strictly adhered to. Any variation in dosage will compromise the setting of the product.

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Spreading the adhesive

The choice of trowel depends on the type of flooring to be installed and on the substrate: for smooth backings and smooth substrates use MAPEI No. 1 or TKB A1, A2 trowels; for textured and impervious backings and substrates use MAPEI No. 2, 3, 4 or TKB B1, B2, C1 trowels.

Only apply as much adhesive as can be covered within the open time (60 minutes) and with good transfer to the backing of the covering.

Installing the flooring

Lay in covering with short waiting time into the still wet adhesive bed: the adhesive ridge has to be impressed.

Take care to avoid air pockets and carefully rub the floor covering down to ensure good adhesive transfer to the backing. Avoid excessive stress at the seams. After installing the floor covering, it is always necessary to carefully roll it down again or to firmly rub it down.

If the flooring is not perfectly flat, put weights (such as bags of sand or similar) on the uneven areas, and on the joints and roll ends until the Adesilex G19 has hardened (12-24 hours).

Extra care must be taken when installing external flooring if there are high temperatures or high variations in temperature (install flooring during the cooler hours of the day).

Flooring bonded with Adesilex G19 is ready for light foot traffic after around 12-24 hours, while the adhesive sets completely after around 72 hours at +23°C.

The setting time of Adesilex G19 at different temperatures is as follows:

Temperature (°C)	+30	+25	+20	+15	+10	+5
Time (hours)	4	6	8	10	20	36

Consumption

Consumption varies according to the flatness of the substrate and the type of backing on the flooring material (and, therefore, the type of trowel used):

- trowel No. 1 or TKB A1/A2 350-450 g/m²
- trowel No. 2 or TKB B1; B2: 450-550 g/m²
- trowel No. 3 or TKB C1: 550-750 g/m²
- trowel No. 4: 750-1000 g/m².

Storage

Adesilex G19 remains stable for at least 24 months under normal environmental conditions in its original, sealed packaging.

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Technical Specification

Properties	Data	
Product	Adesilex G19 Two-Part PU Adhesive	
Consistency	Part A: thick paste	Part B: fluid liquid
Colour	Part A: beige, red, green, black	Part B: transparent
Density	Part A: 1.5g/cm³	Part A: 0.92g/cm³
Application (@ 23 °C - 50% R.H.)		
Mixing Ratio	Part A : Part B = 94 : 6	
Density of Mix	1.45kg/m³	
Pot Life of Mix	50 to 60 minutes	
Temperature Range	10 °C to 30 °C	
Open Time	60 minutes	
Adjustment Time	90 minutes	
Initial Set Time	9 hours	
Final Set Time	10 hours	
Light Foot Traffic Set Time	12 to 24 hours	
Ready for Use	72 hours	
Final Performance		
Temperature in Service	-40 °C to 100 °C	
Moisture Resistance	Excellent	
Ageing Resistance	Excellent	
Solvent & Oil Resistance	Good	
Acids & Alkalis Resistance	Good	
Peel Adhesion at 90° According to EN 1372 – after 14 days at +23 °C (N/mm):	Rubber: > 3 (floor-covering failure) PVC: > 3 (floor-covering failure)	

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