



Adesilex UP71



Two-component, low viscosity, solvent and water-free polyurethane adhesive for the bonding of PVC and rubber flooring both internally and externally

WHERE TO USE

Adesilex UP71 is used for internal and external bonding of:

- rubber tiles or sheeting (with any type of backing material), even in areas subject to heavy, intense traffic;
- homogenous and heterogeneous PVC floor coverings and with foam PVC backing;
- semi-rigid vinyl floor covering

ON

absorbent and non-absorbent substrates.

TECHNICAL CHARACTERISTICS

Adesilex UP71 is a two-component adhesive made up of part A, which is a dense paste, and of part B, which is liquid. The mixing ratio between the two components is 86 : 14.

Adesilex UP71 is a solvent and water-free polyurethane adhesive for indoor and outdoor applications, particularly recommended for floor-layers who are allergic to epoxy and epoxy-polyurethane products.

RECOMMENDATIONS

- Do not lay on substrates subject to rising damp (lay a vapour-proof sheathing layer between the ground and the bearing screed).

- Do not lay on damp concrete.
- Do not use on bituminous surfaces where the bleeding of oil may be present.
- Do not use **Adesilex UP71** at temperatures lower than +5°C or higher than +30°C. Before mixing keep component B at a temperature higher than +5°C.
- Do not use **Adesilex UP71** on curved surfaces or on steps if perfect adherence of the coating can not be guaranteed up to final setting (apply **Adesilex VZ** or **Adesilex LP** using the double-buttering method).

APPLICATION PROCEDURE

Preparation of the substrate

The substrate must be dry, flat, have good compressive and tensile strength and must be free of cracks, dust, loose material, paint, wax, oil, rust, laitance and other substances which may impede bonding.

Current industry standards for each country must always be respected.

The maximum acceptable humidity level of the substrate must respect the ruling norms of each country and must be higher than the level prescribed by coatings manufacturers.

Adesilex UP71 cannot be used where there are signs of rising damp.

Floating screeds installed on lightened sub-layers or insulating material and screeds laid directly on the

ground must be installed on a vapour barrier.

Wherever required: if either cracks in a substrate need to be repaired, a screed requires consolidation, a quick-drying screed needs to be installed or if the laying surface requires levelling, please refer to the catalogues which illustrate the various MAPEI products for recommendations on screed preparation, or contact the MAPEI Technical Assistance Department. In the case of disjointed substrates, or those which are not sufficiently smooth, the surface must be smoothed over to make it suitable for laying.

Acclimatisation

Before starting laying, make sure that the floor, the coating, the adhesive and the substrate have been to the prevailing conditions.

The floor and the floor covering must be unwrapped a few hours before laying. The sheets must be spread out or unrolled to allow them to acclimatise and to reduce the tension caused by the packaging.

Mixing

The two components which make up **Adesilex UP71** are supplied in pre-dosed drums:

component A: 8.6 parts in weight;
component B: 1.4 parts in weight.

Mixing must be carried out using a mechanical mixer, until a smooth, homogenous paste is obtained. The setting time and pot life of the product depend on the surrounding temperature (see relevant table).

Never use the product if the temperature is lower than +5°C, since the setting time will be too long.

In all cases, carefully follow the instructions given by the producer of the floor covering material.

Warning: *the mixing ratio between part A and part B (catalyser) must be strictly adhered to. Any modification to the dosage will interfere with reticulation of the product.*

Laying the product

The trowel to use must be chosen according to the backing of the covering to be laid. For smooth backs, use a MAPEI No. 1 or No. 2 trowel. For rippled, uneven or rough backs, use a No. 3 or No. 4 trowel (refer to the floor covering manufacturers recommendations).

Spread the adhesive uniformly, on an area that permits covering to be carried out in 50-60 minutes, according to the surrounding temperature and the temperature of the substrate.

Laying the floor covering

Follow the indications given by the

manufacturer of the floor covering when laying the product.

The floor, in either sheet or tile form, must be applied on **Adesilex UP71** whilst still fresh, within 50-60 minutes at +23°C. It must then be carefully smoothed from the centre towards the outside, to guarantee total contact and removal of any air bubbles from the sides.

If the floor covering is not flat, it must be weighed down (with bags of sand or other such material) on the deformed parts, the joints and the ends until the **Adesilex UP71** is completely hardened (12 to 24 hours).

Special care must be taken when working at high temperatures or with great variations of temperatures (lay the material during the cooler hours of the day).

Floors bonded with **Adesilex UP71** may be walked on after approximately 12 to 24 hours. Total setting occurs after approximately 3 days at a temperature of +23°C.

Setting times for **Adesilex UP71** according to surrounding temperature:

Temperature in °C	30	25	20	15	10	5
Time in hours	1	2.5	3	5	9	18

CONSUMPTION

Consumption varies according to the uniformity of the substrate or the backing of the floor covering (and therefore, on the type of trowel used):

No. 1 MAPEI trowel: 0.35-0.45 kg/m²

No. 2 MAPEI trowel: 0.45-0.55 kg/m²

No. 3 MAPEI trowel: 0.6-0.8 kg/m²

No. 4 MAPEI trowel: 0.8-1 kg/m²

Cleaning

Adesilex UP71 may be removed from coatings, tools and clothing with alcohol before hardening takes place. After hardening, it may only be removed mechanically or with **Pulicol**.

PACKAGING

Adesilex UP71 is available in 10 and 5 kg drums.

STORAGE

Under normal conditions, **Adesilex UP71** remains stable for at least 12 months if stored in its sealed, original container. Avoid prolonged exposure to frost during transporting and storing – longer exposure under +5°C should be avoided.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Adesilex UP71 component B is hazardous if inhaled. It also irritates the skin, the eyes and the respiratory apparatus, and may cause allergic reactions in those subjects

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

	component A	component B
Consistency:	thick paste	fluid liquid
Colour:	grey	brown
Density (g/cm³):	1.65	1.2
Dry solids content (%):	100	100
Brookfield viscosity (mPa·s):	150,000 (rotor F - 50 RPM)	20 (rotor 1 - 50 RPM)
Storage:	Adesilex UP71 remains stable for at least 12 months if stored in its original, sealed containers	
Hazard classification according to EC 1999/45:	none	harmful Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet
EMICODE:	EC1 R - extremely low emission level	
Customs class:	3909 50 90	

APPLICATION DATA (at +23°C and 50% R.H.)

Mixing ratio:	component A : component B = 86 : 14
Brookfield viscosity of mix (mPa·s):	30,000 (rotor 7 - 50 RPM)
Density of mix (kg/m³):	1,550
Pot life of mix:	approx. 30 minutes
Recommended application temperature range:	from +5°C to +30°C
Open time:	50-60 minutes
Adjustment time:	70-90 minutes
Start setting time:	approx. 3 hours
End of setting time:	approx. 4 hours
Set to light foot traffic:	after 12-24 hours
Waiting time before putting into service:	after 3 days

FINAL PERFORMANCES

Resistance to humidity:	excellent
Resistance to ageing:	excellent
Resistance to solvents and oil:	good
Resistance to acids and alkalis:	fair
PEEL 90° bonding test: according to EN 1372 Standards after 14 days at +23°C (N/mm):	rubber: > 3 (failure of coating) PVC: > 3 (failure of coating)

Adesilex UP71

predisposed. While preparing and applying the product, we recommend protecting the throat and lungs and the use of protective gloves and goggles. Apply the product in well-ventilated areas. In the case of accidents, or a feeling of nausea, seek medical attention.

For further information, please refer to the Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application: for this reason, anyone who

intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.



This symbol is used to identify Mapei products which do not contain solvents, and which give off a low level of volatile organic compounds (VOC); proof of MAPEI's commitment in safeguarding the environment.



This symbol is used to identify MAPEI products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.

All relevant references for the product are available upon request and from www.mapei.com

