ADESILEX GP

High-strength two-component thixotropic epoxy bedding and repair mortar

WHERE TO USE

- For surface repairs of fine cracks and spalls.
- For gap filling, grouting, bedding fixtures, etc.
- For repairs to arises without the use of form work.

Some application examples

- Sealing injectors and surface damage before injection of **Epojet LV** by the low-pressure pump.
- Sealing large cracks and repairing joint corners in industrial flooring subject to traffic.
- Filling pinholes prior to overcoating with epoxy and polyurethane flooring system.
- Repairing concrete surface defects in horizontal or vertical areas
- Repairing of honeycombing concrete
- Joint arris repair and crack sealing
- Dowel bars anchoring, Holes, and void filling
- Structural fixing of tie-rod fasteners and bolts in existing concrete structures, stone, rock, and steel subject to vibration and chemical attack.

TECHNICAL CHARACTERISTICS

Adesilex GP is a two-component product based on epoxy resins, selected fine-grain aggregates and special additives according to a formula developed in the MAPEI Research Laboratories. After mixing **Adesilex GP** (part A) with its hardener (part B), a thixotropic mix, easy to apply even on vertical structures in thicknesses up to 1 cm in a single layer, is obtained. Once prepared, **Adesilex GP** hardens by chemical reticulation alone without shrinkage. It becomes a compound with exceptional bonding and mechanical strength.

Adesilex GP is especially suitable for applications with ambient temperatures between +15°C and +45°C.

RECOMMENDATIONS

- Do not use **Adesilex GP** for sealing flexible joints or joints subject to movement.
- Do not use **Adesilex GP** for cold joints between fresh and hardened concrete (use **Eporip**).
- Do not use **Adesilex GP** on wet surfaces.
- Do not use **Adesilex GP** on dirty or crumbling surfaces.
- Do not use **Adesilex GP** for bonding and grouting anti-acid ceramic tiles (use **Kerapoxy**).

APPLICATION PROCEDURE

Preparation of the substrate

To ensure good adhesion of **Adesilex GP**, special care must be taken for the preparation of surfaces to be bonded. The concrete, natural stone, or brick substrate must be clean, sound, and dry. Sand-blasting is ideal to remove all loose and crumbling parts, efflorescence, cement laitance, and traces of form-release oils. Then remove all dust with compressed air.
All traces of rust, paint, and oil must be removed from metal surfaces, preferably by means of sand-blasting (SA 2½) down to the bright metal.

With regards to freshly placed concrete, it is necessary that the concrete cures for at least 28 days before applying **Adesilex GP**. This is to avoid tensions induced by hygro-metric shrinkages of the concrete concentrated in the interface of the bonding.

Preparation of the mix

The two parts of **Adesilex GP** must be mixed together. Pour part B (white) into part A (grey) and mix at a slow speed with a drill fixed with an agitator until a uniform paste is obtained (a uniform grey). The product is already pre-dosed. To avoid incomplete hardening of **Adesilex GP** do not use partial quantities. When partial quantities are necessary, use a precision electronic scale.
The mixing ratio is:
– 3 parts by weight of part A;
– 1 part by weight of part B.

Application of the mix

Adesilex GP can be applied on concrete, stone, brick, or metal with a flat trowel or float. To obtain good bonding, it is recommended to spread the adhesive on both surfaces that need bonding and let the product penetrate well, especially on irregular surfaces. After applying the adhesive, unite the two pieces that need bonding and keep firm until the adhesive has completely hardened. Because of the excellent thixotropic property, **Adesilex GP** can also be applied vertically or on ceilings without slipping.
The environmental temperature has an effect on the hardening time of the product. At +45°C **Adesilex GP** remains workable for 20 minutes. After this time, the product begins the hardening process. **Adesilex GP** must be applied within the useful pot life time. It is therefore useful to plan the work within the time limit mentioned above.

Precautions to be taken before application

No particular precautions need to be taken with temperatures between +15°C and +45°C. Do not expose the product to sunlight and carry out bonding during the cooler hours of the day in order to prevent the rapid hardening of the product which would make the application difficult.

Cleaning

Due to the high bonding strength of **Adesilex GP** even to metal, it is recommended to clean working tools with solvents (ethyl alcohol, toluol, etc.) before the product hardens.

CONSUMPTION

1.80 kg/m² per mm of thickness.

PACKAGING

10 kg kit (part A: 7.5 kg; part B: 2.5 kg).

STORAGE

24 months in their original packaging. Store the product at temperatures not below +10°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.ae.

TECHNICAL DATA (typical values)

PRODUCT IDENTIFICATION		
Type:	Component A	Component B
Consistency:	thick paste	thick paste
Colour:	grey	white
Density (g/cm³):	1.96	1.91
APPLICATION DATA		
Mixing ratio:	component A : component B = 3 : 1	
Consistency of mix:	thixotropic paste	
Color of mix:	grey	
Mix density (g/cm³):	1.87	
Mix viscosity (cPs):	1˙240˙000(# F RPM 5)	
Application temperature range:	from +15°C to +45°C	
Complete hardening time:	7 days	
Pot life:	60 minutes	
Setting time at +23°C(h):	6-6.5	
FINAL PERFORMANCES		
Performance characteristic	Test method	Performance of product
Compressive strength at +23°C (MPa):		
– 24 hours:	EN 12190	40
– 3 days:		50
– 7 days:		60

IMPORTANT NOTES

While we try to ensure that any advice, recommendations, or information in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is, therefore, important that installers satisfy themselves that the product and conditions are suitable for the envisaged application. No warranty can be given, nor can responsibility be accepted other than the product we supply will meet our written specifications. The installer should ensure that our latest product data and safety information sheets have been consulted before use.

Please refer to the current version of the Technical Data Sheet, available on our website www.mapei.ae.

MAPEI

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into other project-related documents. The resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation. The most up-to-date TDS can be downloaded from our website, www.mapei.ae.

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDE THE RESPONSIBILITY OF MAPEI.

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

Mapei Construction Chemicals L.L.C

Dubai Investment Park 2, P.O. Box: 73869, Dubai, United Arab Emirates

+971 4 815 6666 www.mapei.ae info@mapei.ae

11102-6-2025 (UAE)

Any reproduction of texts, photos and illustrations published here is prohibited and subject to prosecution