

# MATGRIP EPU

## Two Component, High Performance Epoxy Polyurethane Adhesive

### Description:

MATGRIP EPU is a strong two components epoxy polyurethane adhesive for fixing wooden parquet, PVC, rubber, vinyl resilient flooring on non-porous substrates (ceramic tiles, marble, metallic plates, etc).

When the two components are mixed, the product becomes an easy to apply paste with a suitable notched trowel. After curing, it becomes a high quality adhesion with excellent durability and ageing resistance adhesive.

MATGRIP EPU is ideal for fixing any type of paneling for indoor and outdoor application on a variety of supports like, cement board, wood, steel, fiber cement, gypsum boards, prefabricated walls, PVC, screed, plaster, waterproofing membrane, reinforced polyester and non-porous substrates etc.

### Uses:

Ideally used as an adhesive in the following application:

- Fixing most types of panels on all types of substrates
- Areas where hygiene and anti-bacterial specifications are required such as catering facilities.
- Wooden parquet, PVC, rubber, vinyl, resilient flooring
- Rubber athletic tracks and multisport flooring
- Recycled rubber shock-absorbent flooring
- Resilient flooring for indoor sports flooring, and onto waterproofing fiberglass underlays
- PVC sheets and vinyl floor tiles

### Advantages:

- Ideal adhesive for most types of panels on all types of substrates.
- Excellent adhesion to substrates with high mechanical properties.
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- High deformability, with excellent durability overtime.
- Adheres well to almost all materials used in the building industry
- Can be applied indoor and outdoor
- Solvent free with very low VOC
- High bond to the substrate with rapid load bearing strength
- Suitable for installing thin flooring covering

### Instructions for Use:

#### Surface Preparation:

The substrate should be compact, mechanically strong, clean, free of grease, oil, laitance, paint, previous adhesives or other treatments.

Existing cracks on the substrate should be repaired with LAVAPOXY FINISH. Concrete substrate should be prepared by grinding, in order to obtain a uniform flat mineral surface without protruding spots.

Existing ceramic, gres porcelain tiles, marble & stone covering on floor/walls must be firmly attached to the substrate and free of laitance or any substance which may affect adhesion. If required, clean the coverings with appropriate detergent and rinse with plenty of water.

#### Mixing:

Component A and B are in a predetermined mixing ratio and any modification can cause incorrect curing of the product. Transfer the entire quantity of component B into the packaging of component A and mix it with an electric mixer at low speed (up to 300 rpm) for at least 3-5 minutes until the mixture is completely homogenized. Use the mix within 30-40 minutes of mixing. Avoid manual mixing.

#### Application:

MATGRIP EPU has a soft dough consistency and can be applied using a notched trowel suitable to the tile size that will give a coverage of at least 60-70% to the back of tiles.

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Spread MATGRIP EPU on the substrate or on the back of the panel with the right side of the trowel at a uniform thickness of at least 1.5mm. Then rework the surface with the notched side leaving well defined lines. Install the tiles, perfectly dry and clean, over the fresh adhesive, pressed to insure a perfect coverage of the back. Expansion joint must be sealed using suitable MATEX sealants.

## Packaging:

MATGRIP EPU is available in 5 kg kits supplied in dual packs.

## Standard:

MATGRIP EPU standards are the following:

- EN 12004, Class R2T

### TECHNICAL PROPERTIES

Appearance	:	Thixotropic paste
Color	:	Off white
Mix Density	:	1.45
Mix Consistency	:	Viscous
Pot-life time at 25°C	:	45 minutes
Application Temp	:	5°C to +35°C
Adjustability time	:	60 minutes
Ready for use	:	7 days
Shear adhesion strength (EN 12003)	:	2.5 MPA
Initial Shear adhesion strength	:	2.8 MPA
Shear adhesion strength after water immersion	:	2.1 MPA
Shear adhesion after thermal shock	:	2.4 MPA
Deformability	:	Highly deformable
Set to light foot traffic	:	12 hours
Ready for use	:	7 days

## Coverage:

Approx. 2-3 Kg/m<sup>2</sup> depending on substrate condition.

## Cleaning:

Clean all tools and equipment with ARMOSOLVENT prior to hardening of the product. Hardened material can only be removed mechanically.

## Storage:

Store in original packing in dry conditions away from direct sunlight and heat. Store between 10°C and 35°C. Damaged packaging, high humidity or extreme temperature may reduce shelf life.

## Shelf life:

MATGRIP EPU can be utilized within 12 months of production date if stored under proper condition in unopened original packing.

## Health and Safety:

Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

## FIRST AID:

Eyes:	In the event of accidental splashes, flush with warm water and seek medical advice.
Skin:	Wash skin thoroughly with soap and water
Inhalation:	Remove to fresh air, keep patient rested
Ingestion:	Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to MATGRIP EPU Material Safety Data Sheet

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MATEX warrants that its products are free from material and manufacturing defects. Instructions on how to use the product should be strictly followed to ensure effectivity and safe use. MATEX shall not be liable either directly or indirectly for any damages to personal, equipment or products that may occur as a consequence of the failure of any products application because it has no direct or continuous control over where or how its products are applied. It is the user's responsibility to acquire always the updated version of datasheets.

