



DU PU FLEX

HIGH PERFORMANCE POLYURETHANE FLEXIBLE ADHESIVE

DU PU Flex is a professional, superior-technology, two-part polyurethane system with high elasticity and anti skid property, suitable for high-resistance laying on flooring and wall of homogeneous and ceramic tiles, glass mosaic, large-size tiles, humidity sensitive marble and natural stone, on deformable and also non-absorbent substrates, wood and derivatives. The DU PU Flex technology ensures superior- performance adhesion for laying ceramic tiles and natural stone on porous surfaces such glass or metal. DU PU Flex provides balanced thixotropy and superior-performance elasticity ensured by the use of stabilized polyurethane resins and micronised, pure mineral fillers, for rapid and secure laying operations on high deformable and high-expansion substrates.

Green Building Rating



Mineral \geq 30%



Low Emission



Low Ecological Impact



Health Care



Water Based

Areas of Application

- Fixing ceramic tiles of all types to difficult substrates or ones liable to considerably warp.
- Fixing natural stone sensitive to humidity, composite marble.
- For fixing vitreous mosaic.
- Fixing ceramic tiles to kitchen surfaces or work tops, to wood, glass or iron surfaces
- Laying on heating screeds.

Features & Benefits

- Eco-friendly,
- Elastic organic mineral adhesive for high-performance and high-adhesion
- Laying with no vertical slip on deformable substrates,
- Easy and light to spread

Method of Application

Preparation of substrates

1. Substrates must be compact and consistent, free from dust, oil and grease, free from any rising damp, with no loose, flaky, or imperfectly anchored parts. The substrate must be stable, without cracks and have already completed the curing period of hygrometric shrinkage.
2. Undulated areas must be corrected with suitable smoothing and finishing products.

Preparation

1. DU PU Flex is prepared by mixing together parts A and B from the bottom upwards, using a low- rev (400/min.) helicoidal agitator, respecting the preset ratio of 7.5 kg : 2.5 Kg of the packs.
2. Pour part B into the bucket containing part A, being careful to mix the two parts uniformly until a smooth, even coloured mixture is obtained. The user must mix a quantity of adhesive which can be consumed within 1 hour at +23°C / 50% R.H. Packs of DU PU Flex must be stored at a temperature of \approx +20°C for at least 2/3 days prior to use.

Application

1. For normal use, the product can be applied with a suitable serrated trowel (serrations of not more than 7 mm with DU PU Flex). The open time is about 1 hour, while the mixture remains creamy and thoroughly workable for 5 hours. If possible, it is therefore best to apply the product immediately to a surface that will be clad within the useful open time. Press the tile down to make sure that it contacts the adhesive in a sufficient way.
2. In environments subjected to heavy traffic, in external applications and wherever high-elasticity laying system is required, use the double-spread technique to ensure 100% application of the product to the rear of the tiles.

Precautions & Limitations

- Do not use in contact with polystyrene or on substrates which are not perfectly dry and subjected to moisture rising use at temperatures between +10 °C and +30 °C
- Use packs which have been stored for 2/3 days before use at +20 °C strictly
- keep to the mixing ratio of 700 gms : 500 gms .
- For partial mixing, weigh the two parts precisely workability times may vary considerably, depending on environmental conditions and the temperature of the tiles.
- Protect against direct rain for at least 12 hours
- Protect from frost avoid direct exposure to sunlight and sources of heat
- Do not lay on substrates subject to moisture rising or which are not completely dry

Technical Information

Appearance	Part A white paste / part B straw-colored liquid
Mixing ratio	Part A : Part B = 7.5 kg : 2.5 kg
Viscosity of the mixture	54000 mpa.s, rotor 92 rpm 4 - brookfield method
Pot life	≥ 1 h
Temperature range for application	from + 10°C to 45°C
Open time	≥ 1 hour - EN 1346
Adjustability	≥ 1 h
Slip	≤ 0.5 mm - EN 1308
Foot traffic	24 hours
Grouting	12 hour on walls / 24 hours on flooring
Interval before normal use	3 days

Final characteristics

Shear adhesion after 7 days.	≥ 5 Mpa	EN 12003
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Durability test:

Shear adhesion after immersion into water	≥ 5 Mpa	EN 12003
Shear adhesion after thermal shock	≥ 3.5 Mpa	EN 12003
Adhesion to concrete after 7 days	≥ 2.5 Mpa (concrete failure)	EN 1348
Ultimate elongation	30%	
Working temperature	From - 40°C to + 110°C	
Conformity	R2T	EN 12004

Coverage :

This shall depend on the nature and flatness of the surface and the method of application, but at 1mm thickness it is approximately 2 – 4 Kg / M² for the unit which consist of Part A 7.5 Kg and part B 2.5 Kg with a suitable serrated trowel (serrations of not more than 7mm) . For good coverage, it is vitally important that all surfaces should be clean, smooth, plumb, level and free from defects and undulations.

■ Packing

7.5 Kgs base bucket & 2.5 Kgs, 10 Kgs hardener bottle.

■ Shelf life & storage

12 months in the original packaging.

■ Health & safety Precautions :

Always use protective gloves and eyewear both during mixing and during application avoid any contact with the skin. Use in a well-ventilated environment

DISCLAIMER The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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