

unilax

unilax is a latex that, mixed with cement-based adhesives like **one-flex n**, **fr-one n** or **super one n**, improves bonding strength and flexibility up to level C2 S2 as per EN 12004. Specially recommended for laying wall tiles outdoors.

A resin-based latex that can be added to cement-based adhesives to enhance their bonding strength and flexibility. Specially recommended for exterior facades.



Recommended use

- Laying of tiles in facades.
- Large format ceramic floor tiles on radiant heating.
- Indoor large format ceramic tile coverings on deformable substrates*
- Floor and wall tiles on prefabricated panels.
- Indoor and outdoor porcelain tile coverings.
- High traffic floor tiles.
- Pools and damp environments.

Materials

- Large format ceramics.
- Porcelain tiles with a water absorption < 0.5% as per EN-ISO 10545-3.
- Glass mosaic.
- Natural stones and marble without risk of staining or deformation by water absorption.
- DQS slabs and other kinds of marble agglomerate.

Substrates

- Cement covered floors and walls .
- Concrete slabs*.
- Fiber cement panels*.
- Plasterboards*.
- Plywood panels*.
- Existing wall tiles.
- Bituminous substrates.
- On anhydrite or plaster substrates apply uniprim.
- Do not use on metal, PVC, rubber or linoleum substrates.

Features

- Water-based acrylic resins latex.
- Resistant to the most common chemicals.
- Excellent resistance to UV rays and the effect of heat.
- Frost-resistant.

Instructions for use

Preparing the substrate.

The substrate or laying base must be dimensionally stable and not deformable, and with no risk of cracking and shrinking because of mortar hardening. In case of substrates more than 40 mm thick and for reducing tensions due to structural movements, we recommend to decouple with a polyethylene sheet and a perimetral joint around the flooring. Otherwise, we recommend to make a fully bonded floor with mortar screed.

Cement-based substrates must have the following features:

- Residual moisture lower than 3%.
- Clean of dust, grease or any other substance which might compromise the effectiveness of the bonding material.
- Compact, with no cracks, fully hardened.
- Rough texture, efflorescence-free.
- Level and flat, deviations under 3 mm every 2 m of surface.

In case of presenting any of the above defects, these must be fully amended before proceeding to laying the tiles.

In absorbing or not consistent substrates, we recommend to apply a primer for reinforcing the substrate and reducing water absorption. We recommend the use of uniprim, a synthetic resin primer.

Preparing the mortar.

unilax is synthetic resins latex that totally substitutes water in the mix of cement-based mortars. Below are instructions for preparing this adhesive:

- Use clean tools and containers.
- Mix with the mortar in the proportion indicated by the manufacturer. Thus, for butech adhesives, we recommend:

• one flex n blanco	34 %	8.25–8.75 liters/25 kg bag.
• one flex n gris	32%	7.75-8.25 liters/25 kg bag.
• fr-one n	30%	7.25-7.75 liters/25 kg bag.
• super-one n	25%	6.0-6.5 liters/25 kg bag.
- Pour **unilax** in the container first, and then add the mortar slowly.
- Mix with an electric mortar mixer at low speed (500 rpm) until you get a creamy, even and lumpless mass.
- Leave to rest for 5-10 minutes.
- Stir with the trowel and apply.

Applying the adhesive.

In laying ceramic tiles or similar, the only recommended technique is the thin-bed method with notched trowel. The notched trowel type will depend on the amount of adhesive to use in laying the tiles which, in turn, depends on the tile size, the characteristics of the tile back, and evenness of the laying surface. The following are the instructions for applying this adhesive:

- Spread a thin layer of adhesive on the substrate, with the smooth side of the trowel.
- Apply a second coat and comb with the notched part of the trowel.
- Distribute the adhesive grooves uniformly. For wall coverings, we recommend applying the adhesive horizontally, whereas for floors, we recommend applying it parallel to the tile's long side.
- Before laying the tile clean any element off the back, that could interfere with the bonding of the mortar.
- Check the wettability of the adhesive, and lay the ceramic on the fresh adhesive.
- Lay the tile on the adhesive until you get a uniform and full contact. We recommend pressing the tile with a slight back and forth movement, to squash the adhesive groove and cover the back of the tile.
- Check periodically, by removing an already placed tile, the level of adhesive coverage. We recommend a minimum level of 75 %
- In large formats, outdoor installation, radiant heating floors, heavy traffic or overlaying, the level of contact must be 100%, so we recommend the double bonding method where, besides applying the adhesive on the substrate as mentioned above, a thin layer is applied with the smooth end of the trowel on the back of the tile.
- The maximum thickness of the adhesive must not exceed the one recommended by the manufacturer.
- Once the setting time has passed, clean the installation joints in their full length, width, and depth.
- Clean the tool with plenty of water before the remains harden..

Putting into service.

Setting times of mortars mixed with **unilax** are usually shorter than when mixed with water. As a general rule, leave the mortar to harden for a minimum 24 hours before walking on it, 14 days before putting it into service and 28 days before filling the pools.

Preservation

24 months in its original package and protected from moisture and the elements. Store in a dry location, covered and protected from direct sunlight.

Health and safety

unilax is not hazardous according to the current standards on mortar additives. In any case, we recommend taking the usual precautions in the use of chemicals, such as using gloves. MSDS available for professionals upon request.

Data Sheet Conditions

- The technical information included in this data sheet has been gathered from tests at certified laboratories and in the conditions stated by the relevant standards.
- For further information about this product, refer to the Technical Department at butech.

- This data sheet does not describe a finished product; it is a fixing material which, together with other products and materials, determines a ceramic tiles laying system. Instructions in this technical sheet have been written based on our experience and technical expertise, but they have to be considered as general recommendations, which together with those for the rest of the products in the system, help the tile-laying professionals in the performance of their job.
- As it is not possible to know all the features and conditions of a building job, professionals must consider it and, if deemed appropriate, perform a previous test to confirm whether the product is suitable for the job.
- The technical sheet cannot reflect all the applications and conditions entailed in the use of a material, so, in situations not described in this sheet, we recommend to perform a previous test and refer to our technical department.
- This sheet has been updated in April, 2021.

Technical Data

Appearance	White liquid
Specific weight	~1,03 g/cm ³
pH	7.5 - 9
Dangerousness	None
Flammability	No
Preservation time	24 months in a dry place

References

SAP	Product description	Packaging	Palletising
100004376	unilax	20 kg can	560 kg/pallet
100004377	unilax	5 kg can	480 kg/pallet