

Universal 2-Part Adhesive

Technical Data Sheet

UNI-TS-20231130-07-EN

Technical Data

Universal 2-Part Adhesive is a two-component, wet-set polyurethane adhesive that is particularly suitable for bonding Amtico tiles in wet areas such as bathrooms. It may also be used for high temperature areas. Universal 2-Part Adhesive has a working time up to 60 minutes, is solvent free and achieves the requirements of EC2.

It can be used for bonding Amtico tiles onto smooth surfaces like concrete, terrazzo, stone, timber, metal and many other sub-floors.

Packaging	Component A 4.25 kg Bucket Component B 0.75 kg Bottle
Shelf Life	14 months
Storage	5 – 25°C Frost-sensitive
Colour	beige
Specific density	1.41 kg / litre
Hazard Classification	Component A: non classified. Component B: Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
Consumption	400 - 500 g/m ² (2.0 - 2.5 m ² /kg)
Coverage	10 - 12.5m ² per 5 kg
Trowel Notch Size	A2
Pot Life	approx 20 minutes*
Working Time	40 – 60 minutes*
Working Temperature	18 – 27 °C
Set to Heavy Foot Traffic	after 24 hours
Final Strength	after 3 – 5 days
Resistance to castors	suitable (EN ISO 4918)
Underfloor Heating	suitable

* At 20 Deg.C and 65% relative humidity

Subfloor

Direct to earth bases should incorporate an effective damp-proof membrane. The subfloor must be permanently dry (maximum 75% RH), smooth, clean, sound, be free from structural defects and have adequate compressive strength.

Surfaces must be free from contamination, attachments or material which would impair adhesion. Uneven surfaces should be smoothed with an appropriate levelling compound – select according to occupational use of the area.

Ambient Conditions

Laying conditions should be as close as practicable to the occupational use of the project, but must in all cases be in the range described in table (see “working temperature”).

Tiles, adhesive and subfloor must be allowed to stabilise to ambient conditions. The temperature should be maintained for a period of 24 hours before and after the installation – obtain specific advice for subfloors with under-floor heating. Installation of primers, levelling compounds, adhesives or floor coverings, in conditions outside those defined and prescribed in the relevant standard, may be detrimental to one of the installed components or the overall installation.

Storing Universal 2-Part Adhesive in low temperatures will increase the product viscosity, making the adhesive difficult to mix and spread and will considerably delay curing and strength development. High temperatures will decrease the pot life and working time.

Packaging

Universal 2-Part Adhesive is supplied in two containers, which contain the proportions of resin (A) in a 5.6L plastic bucket and hardener (B) in a 1L plastic bottle.

The plastic bucket is large enough to allow the mixing of both components. Under no circumstances must the components or the adhesive be diluted or otherwise adulterated. Always mix the full contents of both parts together – do not split into two or more separate mixes.

Protection

Although Universal 2-Part Adhesive is solvent-free and non-flammable, component B is classified as a respiratory and skin sensitiser and can irritate skin and eyes. It has also been classified as a substance that is suspected of causing cancer if used incorrectly.

Wear suitable personal protective equipment (PPE) eg. protective clothing, mask, gloves and eye protection during mixing and application. Once cured, the adhesive presents no physiological or ecological risk. Refer to the Safety Data Sheet for more detailed information.

Application

Whilst wearing suitable PPE carefully pour the Component B hardener into the bucket containing the Component A resin. When all of the Component B has been added thoroughly mix the material, using an electric drill with spiral whisk or paddle attachment, to a smooth and uniform consistency. The adhesive should be spread immediately onto the floor using an A2 trowel.

Worn or damaged trowels must be replaced to ensure the correct adhesive coverage, which is generally 2.0 - 2.5 m² per kg. Trowel type has been carefully selected to ensure adequate adhesive transfer.

Installation

Only a sufficient area of adhesive should be applied to the subfloor that can be covered within 40 to 60 minutes. Pot life must be observed. Higher temperatures will accelerate the cure of the product and lower temperatures will retard the cure. Tiles requiring handcutting must not be cut oversize and then sprung into position. They must be cut such that they fit neatly into position without needing to bend or apply force. The product provides excellent grab and very high strength. The finished floor should be protected from point loads and heavy traffic for 24 hours after installation, and floors must not be washed for 48 hours.

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Cleaning

Tools and tiles should be cleaned immediately with a soft cloth moistened with methylated spirits or denatured alcohol.

Cured adhesive can only be removed mechanically.

Disposal

The A/B mixing bucket can be disposed of as non-hazardous waste, once any residue has cured and the label has been removed. The Part B bottle residues can be cured by rinsing out any Part B residue with some of the A/B mix, or by leaving the bottle open to air for 24 hours. Once the residue has cured and the label has been removed, the Part B bottle can be disposed of as non-hazardous waste.

Diisocyanate Training

Under REACH Restriction Rules for Diisocyanates, from 24th August 2023, training is required prior to use of polyurethane adhesives and sealants, with a total diisocyanate content greater than 0.1% by weight. The Federation of the European Adhesives and Sealants Industry (FEICA) has created a free of charge online training course for the safe use of diisocyanate products. All participants receive a certificate on completion of the course, which includes the final exam. The certificate is valid for five years and demonstrates compliance to the regulation, which is mandatory. After 5 years the training must be repeated.

The FEICA training is currently available in English, Spanish, French, German, Italian and Dutch. The other EU languages will follow. The training can be accessed by scanning the QR code or by going directly to the online training page www.safeusediisocyanates.eu



Free training voucher code: FEICA_21_C11

Other Information

The information contained in this Data Sheet is specific to the installation of floorings from Amtico International.

The information is general and is only given as a guide.

This information is based on our experience to date and the result of careful testing. However, practical application of the products is influenced by varying site conditions and methods of use. Their success is also dependent upon the professional judgement of the user and his/her conformity to proper trade practice, which are factors outside our control.