

# Universal 2-Part Adhesive

## Technical Data Sheet

UNI-20181107-05-GB

### 1. Technical Data

Universal 2-Part Adhesive is a two-component, wet-set polyurethane adhesive that is particularly suitable for bonding Amtico Design 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 entirely solvent free and classified as EC1R Plus with respect to very low VOC emissions.

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

Packaging	6 kg metal cans (two-component combi-can)
Shelf Life	12 months
Storage	10 – 40°C Frost-sensitive
Colour	beige
Specific density	1.50 kg / litre
Hazard Classification	Component A: non classified Component B: Respiratory and Skin sensitiser, Skin and eye irritant, Suspected of causing cancer
Consumption	400 - 500 g/m <sup>2</sup> (2.0 - 2.5 m <sup>2</sup> /kg)
Coverage	12 - 15 m <sup>2</sup> per 6 kg drum
Trowel Notch Size	A2
Pot Life	approx 30 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% relativity humidity

### 2. Sub-floor

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.

### 3. 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 above (see “working temperature”).

Tiles, adhesive and sub-floor 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 sub-floor 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 adhesive temperatures will decrease the pot life and working time.

### 4. Packaging

Universal 2-Part Adhesive is supplied in two-component metal combi-cans, which contain the correct proportions of resin (A) and hardener (B) for mixing. 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.

### 5. 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 incorrectly used.

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.

### 6. Application

Release the hardener (B) completely into the resin (A) by carefully piercing several times through the central plastic cover and bottom of the upper can with a pointed tool, such as a screwdriver. When all of the hardener has been transferred, remove the upper section of the can and 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 m<sup>2</sup> per kg. Trowel type has been carefully selected to ensure adequate adhesive transfer.

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### 7. Installation

Only a sufficient area of adhesive should be applied to the sub-floor 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. Roll the floor covering ensuring there is no ooze-up of adhesive through tile joints, using a 45 kg 3-section roller to ensure full transfer of the adhesive. 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.

### 8. 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.

### 9. 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.