X-Bond MS U1 Universal Adhesive



> For bonding skirting boards, profiles and wall panels
> Easy to apply from the cartridge
> Suitable for various materials and substrates
> For interior and exterior use on walls and floors
> Water-, UV- and weather-resistant

Product description

One-component, permanently elastic assembly adhesive based on MS polymer. Its lower-viscosity consistency compared with X-Bond MS-K 88 Express makes it easier to apply from the cartridge and is particularly suitable for standard installation bonding of trims, profiles and panels. For installations requiring particularly high immediate initial tack, X-Bond MS-K 88 Express is the preferred choice.
MS U1 is water-, UV- and weather-resistant and is suitable for bonding applications indoors and outdoors. The product is free from water, solvents, silicone, isocyanates and halogens. Once fully cured, it can be painted over. Its permanently elastic properties can reduce shear forces and stresses between the bonded materials.
The adhesive is particularly suitable for installing skirting boards and wall panels. It is also suitable for bonding compatible components made, for example, of metal, concrete, aluminium, glass, rigid PVC and glazed ceramic, as well as for applications in ventilation and air-conditioning installations. Suitability depends on the specific combination of materials, surface condition and service loads. A test bond must be carried out in advance when working with unknown materials.

Delivery format

Container	Outer packaging	Pallet
0.28 L / KTU	12	1200 KTU

Storage
Can be stored frost-free, cool, and dry on wooden shelves in the unopened original container for 365 days

Processing

Recommended tools
Recommended tools
Suitable manual, cordless or pneumatic cartridge gun.

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Processing

Applying the adhesive

Apply the adhesive to the prepared component or substrate in beads or dots using a cartridge gun. Adapt the number, spacing and size of the adhesive beads to the component's size, weight and properties. The adhesive pattern must allow sufficient wetting; for large or non-porous components, the adhesive's curing process must also be taken into account.

Join the parts immediately after application and before a skin begins to form. Position the component with a slight sliding movement and press down evenly. The adhesive beads should be compressed sufficiently. The ideal adhesive layer thickness is approximately 2–3 mm.

If necessary, secure, support or weigh down the component until sufficient initial tack has been achieved. This is particularly important for heavy components, existing stresses or unfavourable installation positions. Protect the bond from mechanical stress until it has cured sufficiently.

Overpainting

Once fully cured, the adhesive can be overpainted with commercially available latex or paint coatings. Before applying interior emulsion wall paint or façade paint, prime with undiluted DX 9. As many coating systems are possible, compatibility testing is recommended.

Cleaning

Remove fresh adhesive contamination and clean tools immediately after use with methylated spirits or Murexin R 500 cleaning wipes. Cured adhesive can only be removed mechanically.

Technical data

Chemical base	MS polymer
Density	1.57g/cm³
Viscosity	Pasty; slightly lower viscosity than MS-K 88 Express
Colour	white
Consumption	Depending on application
Skin forming time	Approx. 20 ± 5 minutes at 23 °C
Full hardening	Approx. 2.5 mm within the first 24 hours
Shore A hardness	Approx. 60 ± 5 according to DIN 53505
Elongation at break	400% according to EN ISO 8339
Temperature resistance	–40 °C to +90 °C once cured
Object and material processing temperature	Optimum: +15 °C to +25 °C
Processing temperature	+5 °C to +30 °C

Substrate

Suitable substrates

Suitable substrates include properly prepared mineral substrates, cement screeds, concrete, calcium sulphate screeds, wooden substrates, dry screeds and levelled substrates. Other suitable bonding surfaces include metal, glass, rigid PVC and glazed ceramic.

The substrate must be firm, load-bearing, dimensionally stable, clean and free from dust, oil, grease, release agents and loose particles. Remove poorly adhering old coatings and adhesive residues. Clean, degrease and roughen smooth or dense surfaces, particularly metal, if necessary. Pre-treat highly absorbent substrates with a suitable Murexin primer. X-Bond MS U1 also adheres to matt-damp surfaces without a primer. For non-absorbent substrates, lightly spray the surface with water before applying the adhesive. If the suitability of a substrate is uncertain, carry out a

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test bond.

Product and processing instructions

The stated values are average values determined under defined test conditions. Different site conditions, particularly temperature, relative humidity, substrate condition and adhesive bead thickness, may affect skin formation, curing and the properties actually achieved.

The application temperature for the material, substrate and ambient air is +5 °C to +30 °C. The recommended optimum temperature range is +15 °C to +25 °C. The recommended relative humidity is 40% to 60%. During bonding and curing, the substrate and adhesive must be warmer than +5 °C and at least 3 °C above the dew point.

Due to natural variations in raw materials, minor differences between individual batches may occur without affecting product suitability.

Tips:

- We generally recommend preparing a test area or carrying out a small-scale trial in advance.
- Observe the product data sheets of all MUREXIN products used in the system.
- For repair work, retain an unaltered original product from the relevant batch.

The information provided represents average values determined under laboratory conditions. Due to the use of natural raw materials, the stated values for an individual delivery may vary slightly without affecting product suitability.

Safety instructions

This leaflet is based on extensive experience, is intended to convey the best of our knowledge, is not legally binding and does neither constitute a contractual legal relationship nor a subsidiary obligation resulting from the bill of sale. The quality of our materials is guaranteed within the framework of our general terms and conditions. Our products may be used by professionals and/or experienced and accordingly technically skilled persons only. Users are not released from inquiring in case of uncertainties or from rendering professional workmanship. We recommend using a test surface first or a small area for initial, small-scale testing. Naturally, it is not possible to describe or foresee all possible current and future uses and peculiarities. Information that is assumed to be familiar to experts has been omitted.
Please observe the current, technical, national and European standards, guidelines and data sheets regarding materials, substrates and the subsequent construction. Please contact us if you have any reservations or doubt.
This version is rendered invalid if a new version is released. The most recent data sheets, safety data sheets and the terms and conditions are available online at www.murexin.com.

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