

# POLYURETHANE ADHESIVE 2K EXPERT

## UNIVERSAL, SUPER STRONG 2-COMPONENT POLYURETHANE ADHESIVE FOR THE MOST DIFFICULT JOINTS.



### PRODUCT DESCRIPTION

Universal, super strong 2-component polyurethane adhesive for the most difficult joints. Super strong, gap filling, weather and (sea) water resistant.

### FIELD OF APPLICATION

Suitable for all bonding with high requirements for durability, strength, impact and shock resistance, temperature resistance and (sea) water resistance. Such as boats and caravans. Also suitable for super strong bonding of large surfaces.

Ideal for bonding many materials such as metals, many types of wood, stone, concrete, ceramic wall and floor tiles, glass, rubber, many synthetics. Also very suitable for bonding PVC film, artificial grass or tactile tiles to concrete, mirrors, carpeting to polyester (boats), tiles to tiles and insulation material to metal. Not suitable for bonding of bitumen, polyethylene (PE), polypropylene (PP), silicon rubber and PTFE.

### PROPERTIES

- Super-strong and durable
- for the toughest connections
- resistant to extreme conditions
- (Sea)waterproof
- Solvent-free
- Good filling capacity

### PREPARATION

**Working conditions:** Do not use in temperatures  $\leq +5^{\circ}\text{C}$ .

**Personal safety:** It is recommended that rubber or plastic gloves are worn.

**Surface requirements:** The surface must be clean, dry, free of dust and grease.

**Preliminary surface treatment:** Surfaces should be clean, dry and free of

dust and grease. If necessary, degrease parts with Bison Degreaser or acetone. Smooth surfaces should first be roughened with sandpaper. In case of wood bonding, the wood humidity content may not exceed 18%.

**Tools:** Mixing tray (clean and dry), putty knife or glue spreader. Thoroughly clean tools immediately after use with Thinner for Bison Kit<sup>®</sup> or acetone.

### APPLICATION

**Mixture ratio:** 5 parts by weight resin to 1 part by weight hardener

**Coverage:** 1.5-3.5 m<sup>2</sup>/kg

#### Directions for use:

Stir resin well before use. Mix resin with hardener in the weight ratio 5:1 (Resin/Hardener). Continue stirring until the adhesive mixture reaches a homogeneous colour. Apply the adhesive mixture, which only needs to be applied on one side, to the surface or the material to be bonded with a putty knife or glue spreader. With soft materials such as rubber tactile tiles and artificial grass, and when affixing tiles, apply the adhesive mixture to the surface with a coarse toothed glue spreader (No 3). In case of rubber (floor covering), first perform an adhesive test. Construction boards can be affixed by applying spots of adhesive. Depending on the weight of the material to be bonded, intervals of 20-40 centimetres should be maintained between the spots of adhesive. Always apply an additional spot of adhesive on the corners of any construction board to be bonded. For full surface bonding to smooth surfaces, use a glue spreader no. 2. Place the material to be bonded in the correct position and firmly press into the adhesive. Preferably, clamp or support during curing. Remove outwardly pressed adhesive immediately.

**Potlife:** Approx. 45 minutes at 20°C. When processing large quantities, assembly time may be reduced to 15 minutes.

**Stains/residue:** Remove adhesive residue immediately with acetone. Dry adhesive residue can only be removed mechanically.

**Advice:** Some types of synthetics can not be joined such as polyethylene and polypropylene. This can be tested by holding a glowing copper wire against the synthetics. Does it smell of wax? Then you can not bond it.

Use a piece of adhesive tape in order to keep the parts in place while the adhesive is curing.

**Points of attention:** The individual components may not come in contact with each other or with water. Foaming of the hardener or mixture indicates that the adhesive has become unusable.

### CURE TIMES

**Handling time:** approx. 2.5 hours

**Full bond strength:** Full bond strength after approx. approximately 48 hours

\* Curing time may vary depending on a.o. surface, product quantity used, humidity level and ambient temperature.

### TECHNICAL PROPERTIES

**Water resistance:** Very good

**Temperature resistance:** Between -30°C and +110°C

**Chemicals resistance:** Excellent

**Paintability:** Excellent

**Filling capacity:** Very good

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## TECHNICAL SPECIFICATIONS

**Chemical base:** Hardener: Isocyanate, Resin: Polyol

**Colour:** Beige (mixture)

**Viscosity:** Pasty

**Solid contents:** approx. 100 %

**Density:** approx. 1.4 g/cm<sup>3</sup>

**Shrinkage:** approx. 0 %

## STORAGE CONDITIONS

At least 24 months after date of manufacture. Limited shelf life after opening. reduces the storage life. Store dry in sealed packaging between +10°C and +20°C.

Our advice is based on extensive research and practical experience. However, in view of the large variety of materials and the conditions under which our products are applied, we assume no responsibility for the results obtained and/or any damage caused by the use of the product. Nevertheless, our Service Department is always at your disposal for any advice needed.