

## JEWELLERY ADHESIVES – BEST IN CLASS



Adhesive Products shows some very popular adhesives for jewellery industry. You will find adhesives for crystal stone gluing, for metal part gluing and for coloured glass gluing.

The products are already a long time on the market with excellent results.  
Highest quality – especially in shock resistance, chemical resistance and long time stability.  
We made great experiences over the last ten years.  
The following adhesives are especially developed for jewellery application.



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#### Please notice:

The mentioned data and information are based on tests in our laboratory. Reliable statements about the behaviour of the glue in practical use and the suitability for a specific use can not be taken. The suitability of the product for a provided use by consideration of all necessary conditions must be tested by the user itself. The kind, the physical and chemical properties of the used materials and the influences during the transport, storage and usage of the glue can effect deviations in the behaviour of the glue in comparison to the behaviour in our laboratory. The mentioned data are measured in our laboratory and they are typical average values or values which are measured only one time. The mentioned data and information represent consequently no guarantee / assurance of the parameters or the suitability of the glue for a specific use.

## HIGH-PERFORMANCE ADHESIVES FOR JEWELLERY INDUSTRY

# JEWELLERY ADHESIVES

## Overview



### CRYSTAL / GEMSTONE ADHESIVE

#### JG 1000-30 A/B 2K epoxy resin adhesive

High performance adhesive for crystals;  
inside: elastic – surface: hard and robust.

#### Parameters for application:

- Viscosity (A+B): 20 000 ± 5 000 mPa\*s
- Mixing ratio: 1:1 (by volume)
- Pot life time at 23 °C: 30 min
- Fixture time (handling strength) 23 °C: 4 h
- Fully cured: 23 °C: 48 h, 60 °C: 6 h, 80 °C: 2 h

#### Product properties:

- Great flexibility
- Colour: yellow / thin layer: transparent
- Glue for all glueable materials (metal, glass, plastic, crystals, leather, porcelain)
- Temperature stability: -70 °C to +130 °C
- Tensile strength at 23 °C: up to 45 N/mm<sup>2</sup>
- No pollutants, no emission (tested)



### CRYSTAL / GEMSTONE ADHESIVE

#### JG 1100-5 A/B 2K epoxy resin adhesive

High performance adhesive for crystals;  
inside: elastic – surface: hard and robust.

#### Parameters for application:

- Viscosity (A+B): 15 000 ± 3 000 mPa\*s
- Mixing ratio: 1:1 (by volume)
- Pot life time at 23 °C: 5 min
- Fixture time (handling strength) 23 °C: 15 min (very fast)
- Fully cured: 23 °C: 24 h, 60 °C: 2 h

#### Product properties:

- Colour: clear transparent
- Glue for all glueable materials (metal, glass, plastic, crystals, leather, porcelain)
- Temperature stability: -70 °C to +130 °C
- Tensile strength at 23 °C: up to 40 N/mm<sup>2</sup>
- No pollutants, no emission (tested)



### CRYSTAL / GEMSTONE ADHESIVE

#### JG 1200-300 A/B 2K epoxy resin adhesive

High performance adhesive for crystals;  
inside: elastic – surface: hard and robust.

#### Parameters for application:

- Viscosity (A+B): 10 000 ± 2 500 mPa\*s
- Mixing ratio: 1:1 (by volume)
- Pot life time at 23 °C: 4 h
- Fixture time (handling strength) 23 °C: 12 h
- Fully cured: 23 °C: 7 days, 60 °C: 12 h, 80 °C: 4 h

#### Product properties:

- Colour: clear transparent
- Glue for all glueable materials (metal, glass, plastic, crystals, leather, porcelain)
- Temperature stability: -70 °C to +130 °C
- Tensile strength at 23 °C: up to 35 N/mm<sup>2</sup>
- No pollutants, no emission (tested)



### CRYSTAL / GEMSTONE ADHESIVE

#### JG 1300-1K 1K epoxy resin adhesive

High performance 1K adhesive for crystals;  
surface: hard and robust.

#### Parameters for application:

- Viscosity : 20 000 ± 5 000 mPa\*s
- Fully cured: 100 °C: 4 h, 120 °C: 2 h

#### Product properties:

- Colour: transparent
- Very good chemical resistance
- Glue for all glueable materials (metal, glass, plastic, crystals, porcelain)
- Temperature stability: -40 °C to +160 °C
- Tensile strength at 23 °C: up to 50 N/mm<sup>2</sup>
- No pollutants, no emission (tested)



### CRYSTAL / GEMSTONE ADHESIVE

#### JG 1400-30 A/B 2K epoxy resin adhesive

High performance adhesive for crystals;  
inside: elastic – surface: hard and robust.  
– Adhesive with highest chemical resistance –

#### Parameters for application:

- Viscosity (A+B): 20 000 ± 5 000 mPa\*s (thixotropic)
- Mixing ratio: 2:1 (by volume)
- Pot life time at 23 °C: 30 min
- Fixture time (handling strength) 23 °C: 4 h
- Fully cured: 23 °C: 48 h, 60 °C: 6 h, 80 °C: 2 h

#### Product properties:

- Great toughness
- Colour: yellow / thin layer: transparent
- Glue for all glueable materials (metal, glass, plastic, crystals, leather, porcelain)
- Temperature stability: -70 °C to +130 °C
- Tensile strength at 23 °C: up to 45 N/mm<sup>2</sup>
- No pollutants, no emission (tested)



### UV ADHESIVE

#### UV 600 UV acrylic

This UV adhesive is a special adhesive for glass bonding in high temperatures and with high humidity demands.  
– Great UV-resistance (no yellowing) –

#### Parameters for application:

- Viscosity: 2 000 ± 500 mPa\*s
- Fixture time (handling strength) 23 °C, 1 mW/cm<sup>2</sup> UV-A: 15 ± 2 sec

#### Product properties:

- Colour: clear transparent
- Glue for all glueable materials (metal, glass, crystals, porcelain)
- Temperature stability: -70 °C to +130 °C
- Tensile strength at 23 °C: up to 25 N/mm<sup>2</sup>
- No pollutants, no emission (tested)



### UV CASTING MATERIAL

#### UV Top 800 UV acrylic

This UV coating is especially developed for casting and applying on different materials like pictures or crystals.  
– Great humidity- and UV-resistance (no yellowing) –  
– Hard on the surface (alcohol resistant) –

#### Parameters for application:

- Viscosity: 2 500 ± 500 mPa\*s
- Fixture time (handling strength) 23 °C, 1 mW/cm<sup>2</sup> UV-A: 40 ± 10 sec

#### Product properties:

- Colour: clear transparent
- Glue for all glueable materials (metal, glass, crystals, porcelain, paper, wood)
- Temperature stability: -70 °C to +100 °C
- Tensile strength at 23 °C: up to 15 N/mm<sup>2</sup>
- No pollutants, no emission (tested)



### 2K ADHESIVE

#### CM 380 A/B Anaerobic adhesive

Adhesive for UV-opaque materials (e.g. coloured glass or metal). It is made for highest temperatures and humidity demands.

#### Parameters for application:

- Viscosity A: 2 600 ± 800 mPa\*s
- Viscosity B: 2 400 ± 600 mPa\*s
- Mixing ratio: 1:1 (beat on beat)
- Fixture time (handling strength) 23 °C: 40 sec

#### Product properties:

- Colour A: transparent
- Colour B: green
- Glue for all glueable materials (metal, glass, crystals, porcelain)
- Temperature stability: -70 °C to +130 °C
- Tensile strength at 23 °C: up to 20 N/mm<sup>2</sup>
- No pollutants, no emission (tested)



### 2K ADHESIVE

#### CM 380 A + Activator J5B Anaerobic adhesive with alcohol based activator

Adhesive for UV-opaque materials (e.g. coloured glass or metal). It is made for highest temperatures and humidity demands.

#### Parameters for application (J5B):

- Viscosity: 50 ± 10 mPa\*s
- Evaporation time for activator: 15 min (23 °C and < 70% rel. humidity)
- Thin application of J5B on the gluing surface using a brush/pen. Then dispense one drop adhesive.
- Fixture time (handling strength) 23 °C: 40 sec

#### Product properties of J5B:

- Colour: green transparent (fluorescent blue)



### Test ink for surface tension measurement

**Important for a good gluing joint:**  
The surface has to be clean, dry and should have a surface tension of minimum 38 mN/m.

This can be tested with our absolutely non toxic ink for surface tension measurement.

Available surface tension inks:  
29 mN/m, 32 mN/m, 35 mN/m, 38 mN/m, 40 mN/m, 42 mN/m, 46 mN/m



### 2K ADHESIVE

#### PU 162 TH5 A/B Polyurethane adhesive

This tough adhesive provides you highest performance in different gluing applications – also adhesion onto PE.

#### Parameters for application:

- Viscosity (A+B): 5 000 ± 1 000 mPa\*s (thixotropic)
- Mixing ratio: 2:1
- Pot life time at 23 °C: 30 min
- Fixture time (handling strength) 23 °C: 5 h
- Fully cured: 23 °C: 48 h, 60 °C: 6 h, 80 °C: 2 h

#### Product properties:

- Colour: light brown / grey
- Glue for all glueable materials – also PE
- Temperature stability: -70 °C to +130 °C
- Tensile strength at 23 °C: up to 50 N/mm<sup>2</sup>
- No pollutants, no emission (tested)



### CLEANER AND SURFACE PROTECTOR

#### JS 210 Water-based polisher and cleaner

JS 210 is used to clean glass and surfaces to achieve a high gloss and to protect the material from dust and dirt for a long time.

**Process:** The glass protector JS 210 is applied undiluted. Just wipe it over the glass and polish it to get a wonderful gloss effect.

#### Parameters for application:

- Viscosity: 15 ± 5 mPa\*s
- Density at 23 °C: 1,00 ± 0,05 g/cm<sup>3</sup>

#### Product properties:

- Colour: clear transparent
- Storage stability in closed bottle at 23 °C: 12 month