



# Tioelast TM A11



TIOELAST TM is an elastic two-component polysulfide sealant for the construction of insulating glass units.

## PROPERTIES

- Does not slump in vertical joints
- Excellent adhesion to all sorts of glass, plastic and metal spacers
- Good characteristics, it can bare all sorts of stress during application
- Resistant to various weather conditions, rain, snow, extreme temperatures
- Compatible with all materials used in insulating glass unit construction

## USE

- Secondary sealant for the construction of insulating glass units
- It is especially recommended when the insulating glass unit has to be transported and installed quickly
- Because of its low water vapour and gas transmission rate it is highly suitable for the construction of gass-filled heat insulating glass units

## TECHNICAL DATA

### Uncured sealant

|                                    |                       |                             |
|------------------------------------|-----------------------|-----------------------------|
| Basis                              |                       | polysulfide polymer         |
| Form                               | component A           | beige paste                 |
|                                    | component B           | black paste                 |
| Curing mechanism                   |                       | chemical                    |
| Specific gravity                   | component A           | 1860 ± 20 kg/m <sup>3</sup> |
|                                    | component B           | 1600 ± 30 kg/m <sup>3</sup> |
| Mixing ratio                       | volume A:B            | 10:1                        |
|                                    | weight A:B            | 10:0,9                      |
| Application time (winter hardener) | 23°C/ 50 % rel. humid | 20 min                      |
| Application time (summer hardener) | 23°C/ 50 % rel. humid | 30 min                      |

|                         |          |                  |
|-------------------------|----------|------------------|
| Resistance to flow      | ISO 7390 | 0 mm             |
| Application temperature |          | + 15°C to + 40°C |

### Hardened sealant

|                                |                       |                            |
|--------------------------------|-----------------------|----------------------------|
| Hardness Shore A               | DIN EN 1279-6 annex E | > 45 (24h. T=23°C, Rh=50%) |
| Change in volume               | ISO 10563             | < 1%                       |
| Tensile strength               | DIN EN 1279-4 annex A | > 0,8 MPa                  |
| Elongation at break            | DIN EN 1279-4 annex A | > 50 %                     |
| Water vapour transmission rate | DIN EN 1279-4         | 6 g/m <sup>2</sup> /day    |
| Gas permeation rate            | DIN EN 1279-4         | 0,0046 g/m <sup>2</sup> h  |

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**APPLICATION**

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To ensure good adhesion, the glass and spacers must be clean, fat and dust free. The surfaces must be fingerprint and lotion free. Because of its characteristics it is suitable for manual, automatic, pneumatic and hydraulic use. Before use the hardener should be thoroughly mixed with the basic component. With manual mixing we should be careful not to mix air in, with automatic mixing, working pressures should be observed. Correct mixing ratio is very important. When mixing, the mixture should be evenly coloured. Indifferent to the mixing technique, the sealant should be applied in such a way, that the glass and spacer are completely wet and that there is no space between them. You should use the sealant in time shorter than the hardening time. The hardening time depends on the temperature and the mixing technique. The hardening time lengthens up to 2 to 3 times at 5°C and becomes twice as short with 30 °C. Fresh sealant and tools should be cleaned with the Tekafin cleaner, the hardened sealant should be removed mechanically.

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**PACKING**

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- 450 ml; 0,6 kg cartridges (cartons containing 25 pieces)
  - 2,5 l; 4 kg cans
  - 203,5 l barrels
- Other ways of packing available on demand.

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**STORAGE**

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6 months in a dry, cool place under 25°C, in the originally sealed package. If the barrels are stored under 15 °C, stabilise them on 20 °C for a few days, to achieve the optimal handling and hardening.

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**SAFETY PRECAUTIONS**

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Keep out of reach of children. Wear suitable gloves. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When using do not eat or drink.

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**ATTENTION**

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The information supplied is accurate to the best of our knowledge and is based on reliable tests and practical experiences. Properties quoted are intended, as a guide and do not therefore constitute a specification. You should thoroughly test any application to be sure that product corresponds to the required performances.