

WILLGEL® POLY

Polymer dispersion for acrylic gels

1. Applications

WILLGEL® POLY is a polyacrylic-based polymeric initiator component for the acrylic gels **WILLGEL® PRO** for crack and hose injections and **WILLGEL® SWIFT** for crack injections and the rehabilitation of expansion joints.

WILLGEL® POLY is used instead of water to mix the B-component and serves to increase the mechanical properties of the reacted gel:

- Prevention or reduction of shrinkage and swelling behaviour
- Higher adhesion to mineral surfaces
- Higher tear strength

2. Substance data*

| | | WILLGEL® POLY | Norm |
|-------------------|-------------------|---------------|-----------------|
| Density at 20°C | g/cm ³ | 1.007 ± 0.01 | DIN 51757 |
| Viscosity at 23°C | mPa*s | 10 ± 5 | DIN EN ISO 3219 |
| Form | | white liquid | |

3. Reaction and mechanical data*

| WILLGEL® POLY | | WILLGEL® PRO | WILLGEL® SWIFT | Norm |
|------------------------|-----|--------------|----------------|---------------------------|
| Consistence | | Hard rubber | Elastic rubber | |
| Colour | | white | white | |
| E-modulus | MPa | 0.45 | 0.49 | DIN EN ISO 527-2:20212-06 |
| Tensile strength | MPa | 0.07 | 0.16 | DIN EN ISO 527-2:20212-06 |
| Elongation at break | % | 260 | 710 | DIN EN ISO 527-2:20212-06 |
| Swelling rate in water | % | 20 | 40 | DIN EN ISO 62:2008-05 |

4. Composition and properties

WILLGEL® POLY is an aqueous dispersion of acrylic polymers which, in combination with WILLGEL acrylic gels, increases their flexibility and improves adhesion to mineral surfaces. In addition, the tendency to shrink during flash-off is greatly reduced. In combination with the acrylate gels **WILLGEL® PRO** and **WILLGEL® SWIFT** the **WILLGEL® POLY** is a crack filler for the swellable filling of cracks, voids and defects in accordance with EN 1504-5.

5. Preparation/Processing

WILLGEL® POLY is used instead of water to mix the B-component of the acrylic gels **WILLGEL® PRO** and **WILLGEL® SWIFT**. Attention must be paid to this, that the B component dissolves completely in the **WILLGEL® POLY**.

To ensure this, it is recommended to fill the container with the B-component with water and mix until the powder is completely dissolved.

This solution is then added to the **WILLGEL® POLY** component and mixed homogeneously. The B-component produced in this way is then processed in a mixing ratio of 1:1 (by volume) to the A-component, using a suitable 3-C injection system. The ready-to-use B-component is to be applied within 8 h.

For further information on the processing of acrylic gels, please refer to the Technical Data Sheet of **WILLGEL® PRO** and **WILLGEL® SWIFT**.

Applicable at ambient temperatures between 5°C and 40°C.

6. Safety notes

WILLGEL® POLY is classified as dangerous according to REGULATION (EC) No. 1272/2008. Before starting processing, it is necessary to inform yourself about precautionary measures and safety advice by means of the safety data sheets.

7. Storage

PRODUCT IS SENSITIVE TO FROST!

At least six months from date of delivery or twelve months from date of production when stored in a dry place between 10°C and 30°C. The minimum durability is reflected by the batch number on the container.

8. Delivery form

| | WILLGEL® POLY | Item no |
|------------------------------|----------------------|----------------|
| 20 l PE plastic can à | 20 kg | WGEL-POLY-20 |
| 200 l PE plastic bung drum à | 200 kg | WGEL-POLY-200 |
| 1000 l IBC à | 1000 kg | WGEL-POLY-1000 |

Other delivery forms on request.

9. Waste management

In Germany, empty packaging can be taken back by the KBS or Interseroh-System for steel or plastic packaging. The return is limited exclusively to used, completely empty packaging of the same type, shape, and size that we carry in our product range.

Transport and outer packaging are not included.

For more information on the location and further modalities of the return, please visit the website of the recycling partner acting on our behalf:



Interseroh+ GmbH

www.interseroh.plus
info@interseroh.plus
Tel.: +49 (0)2203 9147 - 1268



**Kreislaufsystem
Blechverpackungen Stahl GmbH**

www.kbs-recycling.de
info@kbs-recycling.de
Tel.: +49 (0)211 239228 - 0

Reacted product residues can be disposed of in smaller quantities with household waste, in larger quantities as construction waste or incinerated.
Non-reacted product components must be disposed of in accordance with local regulations.

10. Legal notes

***The indicated data are laboratory values.**

Our technical application advice, which we give to support the customer or applicator on the base of our experience and to the best of our knowledge according to the current state of knowledge in practice and science, is non-binding and does not represent an agreed quality. The data and processing instructions are based on laboratory tests.

In practice, the measured values may be different due to influences outside our control. We explicitly reserve the right to make technical changes during further development.

The technical documents should be read carefully before starting work.

With the publication of a new version of the technical data sheet, all previous data sheets lose their validity. The applicator must test the products for their suitability for the intended application.

With the publication of this data sheet, previous editions become void.

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