

# WILLSTOP® FLEX+

*Flexible one-component resin for crack injections*

## 1. Applications

**WILLSTOP® FLEX+** is a light brown, water-reactive liquid. The product is already catalysed and characterized by its high flexibility and elasticity.

When **WILLSTOP® FLEX+** comes into contact with water, it expands and quickly hardens into a tough, flexible, closed-cell polyurethane foam. Reactivity is dependent on temperature.

**Advantages:**

- Pre-catalysed
- reacts at temperatures below 5°C
- phthalate-free resin

**WILLSTOP® FLEX+** can be further accelerated by adding up to 2% (parts by weight) of **WILLADD® Flex**.

## 2. Substance data\*

		<b>WILLSTOP® FLEX+</b>	<b>Norm</b>
Density at 20°C	[g/cm <sup>3</sup> ]	1.05 ± 0.05	DIN 51757
Viscosity at 5°C	[mPa*s]	1550 ± 300	DIN EN ISO 3219
Viscosity at 15°C	[mPa*s]	730 ± 150	DIN EN ISO 3219
Viscosity at 25°C	[mPa*s]	400 ± 100	DIN EN ISO 3219
Viscosity at 30°C	[mPa*s]	270 ± 100	DIN EN ISO 3219
Colour		light brown	

### 3. Reaction and mechanical data\*

WILLSTOP® FLEX+		Temperature		Norm
Start of reaction	[sec]	5°C	150 ± 20	PV_FW23
End of reaction			610 ± 60	
Start of reaction	[sec]	15°C	110 ± 20	PV_FW23
End of reaction			495 ± 50	
Start of reaction	[sec]	25°C	65 ± 15	PV_FW23
End of reaction			435 ± 50	
Start of reaction	[sec]	30°C	50 ± 10	PV_FW23
End of reaction			355 ± 35	

The foaming factor is 10 - 15.

### 4. Composition and properties

**WILLSTOP® FLEX+** is a modified polyisocyanate.

**WILLSTOP® FLEX+** must be protected from atmospheric moisture.

When **WILLSTOP® FLEX+** comes into contact with water, it expands and rapidly hardens into a tough, flexible, closed-cell polyurethane foam.

### 5. Preparation/Processing

#### Preparation

We recommend storing the **WILLSTOP® FLEX+** system at the desired temperature for at least 12 hours before processing to achieve the desired processing temperature.

#### Processing with a 1K injection system

**WILLSTOP® FLEX+** is conveyed with a 1K injection system, injected via an injection packer through a previously created borehole behind the manhole or channel wall.

The product requires water to react.

### 6. Safety notes

**WILLSTOP® FLEX+** is classified as dangerous according to REGULATION (EC) No. 1272/2008. Before starting processing, it is therefore necessary to obtain information on precautions and safety advice from the safety data sheets.

### 7. Storage

At room temperature, the shelf life is at least six months. The minimum durability is reflected by the batch number on the container.

## 8. Delivery form

	<b>WILLSTOP® FLEX+ (item no.)</b>
10 l tin can à	10 kg (WSTOP-FLEX+-2-10)
20 l tin can à	20 kg (WSTOP-FLEX+-2-20)

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](http://www.interseroh.plus)  
[info@interseroh.plus](mailto:info@interseroh.plus)  
Tel.: +49 (0)2203 9147 - 1268



**Kreislaufsystem  
Blechverpackungen Stahl GmbH**

[www.kbs-recycling.de](http://www.kbs-recycling.de)  
[info@kbs-recycling.de](mailto: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. Test certificates/Approvals

**WILLSTOP® FLEX+**, Drinking water test report based on KTW-BWGL April 2022,  
JenaBions GmbH Juni 2025

## 11. 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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