

# WILLSTOP® 42 + WILLADD® 42

*Low viscosity one-component injection resin for soil stabilization*

## 1. Applications

**WILLSTOP® 42** is a low viscosity one component system used to stabilize loose soils or to increase the bearing capacity of these soils.

The product:

- low viscosity, good penetration capacity
- reaction time can be adjusted by adding catalyst
- phthalate free

## 2. Substance data\*

		<b>WILLSTOP® 42</b>	<b>WILLADD® 1</b>	<b>Norm</b>
Density at 20°C	[g/cm <sup>3</sup> ]	1.10 ± 0.05	1.00 ± 0.05	DIN 51757
Viscosity at 25°C	[mPa*s]	28 ± 10	15 ± 5	DIN EN ISO 3219
Colour		dark brown	yellowish	

## 3. Reaction and mechanical data\*

<b>Quantity WILLADD® 42 [%]</b>	<b>Temperature [°C]</b>	<b>0.50</b>	<b>1.5</b>	<b>2.5</b>
Start of reaction, [sec]	10	-	90	53
End of reaction, [sec]		-	240	155
Start of reaction, [sec]	15	-	80	48
End of reaction, [sec]		-	220	140
Start of reaction, [sec]	20	300	60	35
End of reaction, [sec]		610	215	130
Start of reaction, [sec]	25	125	55	28
End of reaction, [sec]		470	185	121
Start of reaction, [sec]	30	110	52	26
End of reaction, [sec]		420	170	110
Start of reaction, [sec]	35	100	43	25
End of reaction, [sec]		365	152	95

The times given are laboratory values with a scatter of  $\pm 15$ .  
The determination was carried out with sand at the specified temperature.

## 4. Composition and properties

### Components:

WILLSTOP® 42 is a modified polyisocyanate.

WILLADD® 42 is a blend of additives that improves the miscibility of the components and regulates the reaction behavior of the mixture.

### System:

The WILLSTOP® 42 + WILLADD® 42 system requires water to react. The reactivity depends on the temperature and the amount of WILLADD® 42 catalyst. If there is not enough water for the reaction, this can be injected additionally (proportions resin : water = 10 : 1).

## 5. Preparation/Processing

### Preparation

We recommend storing the WILLSTOP® 42 + WILLADD® 42 system at the desired temperature for at least 12 hours prior to application to achieve the desired application temperature.

### Processing with a 1K injection system

Stir WILLADD® 42 into WILLSTOP® 42 in the desired quantity. The system is conveyed with a 1K injection system, injected into the soil via an injection packer or a perforated lance.

## 6. Safety instructions

**WILLSTOP® 42 + WILLADD® 42** are 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 least six months after delivery or twelve months after production if stored dry between 10°C and 30°C. The minimum durability is reflected by the batch number on the container. When using products stored for longer periods, it is generally recommended that F. Willich GmbH + Co. KG checks whether the product specification is still given before using this product.

## 8. Delivery form

	<b>WILLSTOP® 1</b>	<b>WILLADD® 1</b>
20 l tin can à	20 kg	-
5 l tin can à	-	5 kg
1 l tin can à	-	1 kg

Other delivery forms on request.

## 9. Disposal

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 notice

**\*The data given are laboratory values.**

Our technical application recommendations, which we give to support the purchaser or processor on the basis of our experience to the best of our knowledge in accordance with the current state of knowledge in practice and science, are non-binding and do not constitute an agreed quality. The data and processing instructions given are based on laboratory tests. In practice, the measured values may deviate from these due to influences outside our sphere of influence. We expressly reserve the right to make technical changes in the course of further development.

The technical documents should therefore 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 user must check the products for their suitability for the intended application.

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

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