

Technical Data Sheet

WILLSTOP® 1 + WILLADD® 1

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Fast reacting one-component injection resin
1. Uses

WILLSTOP® 1 is a high-efficient one-component system for sealing water leakages with high water flows. The product can be used to fill cavities in rock cracks, for soil stabilization and anchoring in gravel. The reaction times can be adjusted with a concerted amount of WILLADD® 1.

2. Material Data

		WILLSTOP® 1				WILLADD® 1	
		10°C	15°C	20°C	25°C	20°C	25°C
Colour				brown			yellowish
Density	kg/m³	-	-	approx. 1108	approx. 1105	approx. 999	approx. 1001
Viscosity	mPa*s	approx. 435	approx. 300	approx. 180	approx. 135	approx. 28	approx. 25

3. Reaction data*

Percentage by weight WILLADD® 1	2%	6%	10%
at 10°C			
Start of reaction [s]	-	approx. 19	approx. 12
End of reaction [s]	-	approx. 105	approx. 77
at 15°C			
Start of reaction [s]	-	approx. 16	approx. 11
End of reaction [s]	-	approx. 102	approx. 61
at 20°C			
Start of reaction [s]	approx. 48	approx. 14	approx. 10
End of reaction [s]	approx. 360	approx. 95	approx. 55
at 25°C			
Start of reaction [s]	approx. 35	approx. 10	approx. 8
End of reaction [s]	approx. 300	approx. 80	approx. 46
Foaming factor (free rise)	-	-	approx. 70
Reactions temperature (maximum) [°C]	-	-	83

*Laboratory data

4. Composition and Properties

WILLSTOP® 1 consists of a modified isocyanate.
 WILLADD® 1 is a mixture of catalysts and additives.

5. Preparation/Processing

Stir WILLADD® 1 in an appropriate amount into WILLSTOP® 1. This mixture must be protected from air humidity. The mixture has to be injected via packers and pumps into the water-bearing zones and reacts only in contact with water. If not sufficient water is available for the reaction, it can also be injected (ideally 10 parts resin: 1 part water).

6. Storage

At room temperature, the shelf life is at least 12 months in original containers. When using longer stored products, is generally recommended that F.Willich Isoliersysteme GmbH + Co. KG checked this product before using, whether the product specification is still given.

7. Delivery form

WILLSTOP® 1	WILLADD® 1
20 kg tin can à 20 l	5 kg tin can à 5 l

Other forms of delivery on request.

The information in this data sheet corresponds to our knowledge and experience at the current time. These don't represents legally binding warranted characteristics. The product should be tested for its suitability before use. The processing is beyond our control and therefore exclusively in the responsibility of the user.