

ACS PU INJECTION[®]

Polyurethane Based Injections Material



■ Description

ACS PU INJECTION[®], is a polyurethane based, solvent-free single component injection material specially developed for stopping water leaks and filling cracks.

■ Place of usage

- In stopping water leaks in foundation, curtain, slab concrete.
- Stop the water leaks of tunnel coating concrete.
- Stop the water leaks of diaphragm walls.
- Preliminary application to sandy grounds and cracked rocks.
- Stabilisation of coarse sand and gravel.
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■ Consumption

- Consumptions may vary depending on the depth and size of the crack.

■ Advantages

- Good bonding to wet surfaces.
- High expansion factor.
- Solvent free.
- Economical.
- Worker is not harmful to health and environment.
- Very good adhesion to wet surfaces.
- Reacts with water to form foam.
- It can be applied with one component, pump assist.

TECHNICAL CHARACTERISTICS

Chemical Properties	Polyurethane resin
Color	Yellow
Density (20°C)	1,14 ± 0,02 (TS EN ISO 2811)
Solids By Weight (%)	100 (TS EN ISO 3251)
Viscosity 25°C (CPs)	300 - 350 (ASTM D 4889)
Flash Point	>160
Mixing Ratio	10:1
Start of reaction (sec) (with 10% water and 10% accelerator)	25 - 30
Foam Expansion Rate by Mixing 10% Catalyst	30 - 35 Layers

NOTE: The above values are given at + 23 °C and 50% relative humidity environment. High temperatures shorten the time, low temperatures prolong the time.

APPLICATION METHOD

Wet conditions: Add the **ACS PU INJECTION ACCELERATOR[®]** (accelerator) to **ACS PU INJECTION[®]** (between 5- 10%, depending on the required reaction time) mix quickly and thoroughly to be homogenous. Inject this mixture through a single component injection pump to the water area. The moisture / water in the ground or structure will cause the foaming reaction.

Dry conditions: For injection purposes, flush holes with water to thoroughly wet the injection area. Add the **ACS PU INJECTION[®]** to **ACS PU INJECTION ACCELERATOR[®]** (between 4-10%, depending on the required reaction time) mix quickly and thoroughly to be homogenous. Inject this mixture through a single component injection pump to the water area. The moisture / water in the ground or structure will cause the foaming reaction.

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MIXING RATIOS

	ACS PU INJECTION®	ACS PU INJECTION ACCELERATOR®
Mixture Amount	25 kg	2,5 kg
Mixture Density	1,14 kg/liter	

TIPS TO NOTICE

Ambient temperature, humidity and water temperature are parameters that affect the rate of use of the accelerator. By taking these parameters into consideration, the rate of accelerator usage is determined by experiments.

PACKAGING

ACS PU INJECTION® 25 kg container

ACS PU INJECTION ACCELERATOR® 2,5 kg container

STORAGE

ACS PU INJECTION®, ACS PU INJECTION ACCELERATOR®, In unopened original package, it should be stored in a cool and dry environment at + 10 °C + 25 °C C temperature protected

from the freezing. In short-term storing, maximum 3 palettes can be stowed on top of each other and delivery has to be according to first in first out system. In long-term storing, the palettes must not be stowed on top of each other.

SHELF LIFE

The shelf life is 12 months from the date of production under suitable storage conditions. Opened packages should be closed firmly and consumed within 1 week.

SAFETY

During the application, work clothes, protective gloves, goggles and masks should be used in accordance with the Occupational Health and Safety Rules. Due to the irritating effects of uncured materials, the components should not be allowed to come into contact with the skin and the eye. In case of contact, immediately wash with plenty of water and soap. If swallowed, seek medical advice immediately. Food and beverages should not be left at the application areas. Keep out of reach of children. Please refer to the Material Safety Data Sheet for detailed information.



□ Responsibility

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. ACS A PLUS CONSTRUCTION SOLUTION YAPI ANONİM ŞİRKETİ is only responsible for the quality of the product. ACS A PLUS CONSTRUCTION SOLUTION YAPI ANONİM ŞİRKETİ is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones (06/2019)