

Product Description

La JetGrout PU300 is a hydrophobic polyurethane based foam resin used for injection into concrete structures exhibiting water egress. La JetGrout PU300 is a single component hydrophobic resin that reacts to form a closed cell, semi-rigid, non corrosive foam when it comes in contact with water. A catalyst/accelerator is separately required to be added to control the foaming time to effectively counter active or gushing water leakages. La JetGrout PU300 is injected using appropriate high pressure injection equipment from the "negative side".

Salient Features

- High volume expansion
- Low Viscosity
- Permanently flexible
- Good adhesion to wet and dry surfaces
- Withstands high hydrostatic pressure
- Easy to apply
- Environmentally safe (cured product is inert)
- Impermeable to water
- Bridges wide gaps
- Economical

Uses

- Cracked or honey - combed concrete slabs
- Tunnels and dams
- Joints in concrete / rocks
- Water retaining structures
- Sewage treatment plants
- Sewers, manholes and utility boxes
- Pipe intrusions
- Basements, Podium slabs, lift pits
- Voids in pre-fabricated members

Advantages

- Has very remarkable solidifying property even in areas where water flow is continuous.
- It stops water from oozing and solidifies the ground with high strength
- Imparts solidifying property in all types of water, such as seawater, mineral water or that containing slight acid and alkali
- Is extremely stable both chemically and physically and remains unaffected from the attack of any bacteria or fungi
- Is completely safe and non-polluting to the water it contacts after completion of reaction and has no effect on potable water, fish or marine life
- Possesses excellent adhesiveness to solid particles and is therefore used very successfully in landslide prevention
- Does not wash away or is not diluted by the ground water after solidification

Injection Process

Identify the area to be injected. Install injection packers of suitable diameter and length. Ensure injection packers are tightly installed to avoid packer failure during injection process. If required, seal packers using quick setting cement based putty. Mix the two components, resin and catalyst in the required ratio and feed into the pump and commence injection. Injection pressure shall be governed by the type of element, packer spacing and other factors. For injection below raft slab, grade slab, inject in intermittent batches and observe effect. Avoid large volume injections in short period.

Technical Properties

	Resin (Component A)	Catalyst/Accelerator (Component B)
Material Description	Solvent free hydrophobic Polyurethane injection foam resin.	Catalyst/Accelerator additive to initiate and/or accelerate foaming action.
Appearance	Dark brown liquid	Clear liquid
Viscosity	200 cPs (@ 23°C)	
Density	~ 1.12 g/cm ³	~ 1.01 g/cm ³
Mixing Ratio	10 parts by volume	0.5 part by volume
(Mixing ratio can be varied from 10 : 0.5 ~ 10 : 1.5 parts by volume depending on water leakage.)		
Volume Expansion	Upto 20 times	
Application Temperature	> 5°C (substrate temperature during injection)	
Application Equipment	Suitable single or two component positive displacement resin injection pump capable of developing required injection pressures. Non-return injection packers.	

Impregnations Method

La JetGrout PU300 is generally pumped as a two component through low pressure hand-operated pumps or special high pressure pumps, as required according to site conditions. Hoses are filled with packers/injection nipples with valve which is sealed against back-pressure with quick-setting cement. The surface is sealed/patched properly to prevent from coming out.

La JetGrout PU300 reacts with water and expands to form a 'fluid wedge' & blocks the leakage. Even gushing leakages can be sealed without it being necessary to block the hydraulic pressure. Due to the low viscosity and expansion during reaction even the smallest cracks, fissures and pores can be impregnated.

Since the chemical reaction is very quick, the results are immediately visible. When water is not naturally present in sufficient quantity to assure the desired reaction, a sufficient quantity of water is also required to be injected.

Packaging

La JetGrout PU300 is available in

Resin (Comp. A) : 10 & 20.0 kg in steel pails
Catalyst (Comp. B) : 0.5 & 1.0 kg in plastic container

Shelf Life / Storage

09 Months if kept in a dry store in its original packing.
 Store at 5°C to 30°C and protected from moisture.

Health & Safety

La JetGrout PU300 is of low hazard. Contact with the skin and eyes, or inhalation of dust should be avoided. Suitable protective clothing, gloves, eye/face protection and dust mask should be worn. Any contact with skin, should be washed with clean water. In case of contact with eyes, should be rinsed immediately with plenty of water and sought medical attention.

Important: La Greens India Pvt. Ltd., products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, La Greens India does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.



Smart Solutions for Sustainable Construction

La Greens India Pvt. Ltd.

Old No. 151/1, New No.114, 8th Main Road,
 11th Cross, Malleswaram, Bangalore-560 003

+91 80 4993 4734

info@lagreensindia.com

www.lagreensindia.com

(A) Manufacturing Unit :
 Plot No.154, KIABD Indl. Area, 2nd Phase,
 Antharasanahalli, Tumkur - 572106, Karnataka

(B) Goligram, Guskara Road, Near R.S. Rice Mill,
 Burdwan - 713 126. West Bengal.



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