

Technical Data Sheet



Crackshot-150

A single-component hydrophilic polyurethane that reacts and expands upon contact with water in concrete cracks to stop leaks

DESCRIPTION

Crackshot-150 stops water from leaking through cracks in concrete walls and into below-ground car parks, basements, tunnels, retaining walls, dam walls and other sites. It works by quickly reacting with water to expand into a tough, flexible and dense foam that blocks the leak permanently.

APPLICATIONS / USES

Crackshot 150 is a hydrophilic polyurethane prepolymer liquid for hydrophilic polymer resin type water stopping. It can be injected directly into a leaking crack, fracture or joint, or it can be injected 1:1 with water. After injection has taken place, the Crackshot 150 will foam to expand and fill the void, forming a tight, impermeable elastomeric seal, stopping the water flow.

FEATURES / ADVANTAGES

- Potable water certified to AS/NZS 4020:2005
- High tensile adhesion
- Solvent-free, environmentally safe.
- Excellent adhesion to most surfaces including concrete, brick and mortar.
- Resistant to most organic solvents, mild acids and alkalis.
- Rapidly forms a highly resilient flexible seal that allows movement to the crack, fracture or joint.
- Reacts even with seawater or mineral water

COLOUR

Clear.

Property	
Appearance	Opaque liquid
Viscosity @ 25°C, [CPs]	450 - 600 mPa·s
Density at 25°C	1.1
Elongation thick section	>34%
Elongation thin section	>400%
Adhesion testing	3.84 MPa

Reaction time based on ratio between Water:Resin at 25°C

RATIO+	CREAM TIME	RISE TIME	FOAMING RATIO
1:1	50 sec	98 sec	5X
1:2	42 sec	90 sec	5X
1:3	38 sec	110 sec	6x
1:4	30 sec	120 sec	7x

Ratio 1:1 Water:Resin - all technical data stated herein is based on tests carried out under laboratory conditions.

TEMP	CREAM TIME	RISE TIME	FOAMING RATIO
10°C	80 sec	180 sec	4x
20°C	55 sec	130 sec	4x

25°C	50 sec	98 sec	5x
30°C	42 sec	90 sec	6x

APPLICATION GUIDELINES

Crackshot-150 can be injected by two methods:

1. Single Component Pump that is equipped for high pressure. The resin will react with the water in the structure and foam.
2. Twin Piston Pump water / resin ratio can be varied to form different density foams as shown in table above.

Note: It is recommended that the material be conditioned to appropriate temperatures for at least 12 hours prior to application. Always make sure that the material is homogenous, mix the resin using a dry clean drill and paddle mixer for a minimum of 15 sec before application.

At temperatures below 10°C crystallisation may occur. However after heating (indirect heat) and mixing, the liquid is restored to its original quality.

PACKAGING

Crackshot 150 is supplied in 5 kg, 20 kg and 210 kg drums. Packaging size may vary subject to local regulations and requirements.

STORAGE

Crackshot-150 should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is

unopened, then a shelf life of one year can be expected.

HEALTH AND SAFETY ADVICE

Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Avoid release into the environment. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before reuse.

Specific treatment (see advice on label and Safety Data Sheet). If on skin: wash with plenty of soap and water. If in eyes: rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue rinsing. Call a poison center or doctor if you feel unwell. If skin irritation or rash occurs get medical advice/attention. If eye irritation persists get medical advice/attention. If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. Always collect all spillage. Refer to LiquiMix Safety Data Sheets for individual products.

Important Notice

The information contained herein is offered without charge and is for use by technically qualified personnel at their own risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto.

LiquiMix Pty. Ltd. 24 Rosa Place, Richlands Qld 4077, Australia

Ph: (07) 3277 6655 email info@liquimix.com
www.liquimix.com

© 2019 LiquiMix Pty Ltd - All Rights Reserved.
