SX T ACRYLIC GEL
INJECTION SEALING MATERIAL

PRODUCT DESCRIPTION

SX T is an elastic 2 component acrylic injection gel, especially designed for the injection or the re-injection of injection hoses and injection packers for sealing joints and cracks in concrete. The gelification does not occur suddenly as with other acrylic gels, but the viscosity increases in a linear way. This makes it possible to control completely the (re)injection process of the injection hose.

SX T has an excellent adhesion to the concrete surface and while in contact with water, the total free expansion can be a maximum of 250% of the original volume and the ultimate elongation can be a maximum of 200%.

SX T has the ability to absorb shrinkage and expansion of the injected joint or crack due to thermal fluctuations, loading or vibration.

ADVANTAGES

- Excellent penetration capacity due to water like viscosity, giving instant filling of injection hose and the joint as well as hairline cracks and capillaries
- Viscosity is increased gradually and not instantly, thus less problems in processing
- A very high sealing effect with long term durability and intergrity
- High elasticity and adhesion to construction materials such as concrete, masonry and steel
- Can be processed as 1 or 2 components
- Reaction speed can be adjusted to suit (consult CORKJOINT)
- Contains no toxic solvents, is non flammable and is suitable for use in potable water applications
- Good general chemical resistance characteristics to diesel, mineral oils, alcalines and concrete aggresive liquids

COMPOSITION AND PROPERTIES OF COMPONENTS

SX T component A1 is an aqueous methacrylate solution. SX T component A2 is an accelerator based on amines. SX T component B1 is water and is supplied by the end user/installer. SX T component B2 hardener, is paroxide salt and is solid, which is soluble in water. After mixing, the hardener triggers the polymerisation of the metacrylate, yielding an elastic gel which is capable of absorbing and desorbing water. The gel mass is chemically resistant against most organic and inorganic liquids.

TECHNICAL FEATURES

DENSITY CATALYST	1,11 kg/lt
DENSITY RESIN	1,12 kg/lt
% ACTIVE COMPONENTS	42-48%
MIN. PROCESSING TEMPERATURE	5°C
VISCOSITY AT (20°C)	50-65 mPas

MIXING AND PROCESSING

The SX T system consists of 4 components:

A1:	SX T Resin (acrylic resin)	10kg (8.93lt)
A2:	SX T Kat (catalyst)	500gms (0.23lt)
B1:	Water (supplied by end user)	9.16lt
B2:	SX T Init (initiator)	24gms

Two solutions of A and B are to be prepared for the application, as follows:
Solution 1 (A): SX T Resin (A1) with SX T Kat (A2)
Solution 2 (B): Water (B1) supplied by the end user with SX T Init (B2)

Note: The shelf life of Solution 1 (A) and Solution 2 (B), once mixed as above is 24 hours.
When Solution 1 (A) and Solution 2 (B) are combined for injection, they become 18.30lt of processible material.

Mix the components of A1 & A2 and B1 & B2 into their respective solutions of 1 & 2 (A & B) thoroughly. No metal stirrers should be used for mixing of the solutions, but only plastic or wooden paddles. Mixing time of Solution 1 (A2 with A1) and of Solution 2 (B2 with B1) should be for approximately 10 minutes. The temperature of the added B1 component (water) is to be at about 25°C.

In order to obtain an acrylic gel, the 2 Solutions (A & B) must be mixed together in a proportion of 1:1 (volume). The reaction time at 25°C, will be approximately 10 minutes.

The reaction time decreases if the temperature is higher and increases when the temperature is lower. Please consider that site conditions have an enormous influence on the reaction time of SX T. We strongly advise to diagnose the reaction time on site depending on the predominant conditions before injecting SX T. A site ‘reaction time mixing test’ should be performed on the SX T prior to the injection process to indicate the actual reaction time of the kit, based on the current site temperature conditions.

NOTE: Hot & cold temperatures and hot & cold substrates can affect the gelling time of SX T.

SX T is recommended to be injected into the injection hose with a 2 component (manual, electric or pneumatic) pump. The machine parts that come into contact with the gel must be in stainless steel.

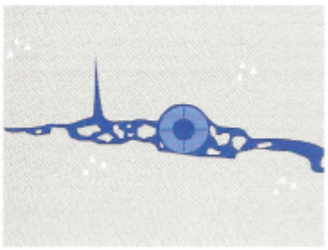
If you require the injection hose to be re-injectable, you must flush out fully the SX T from the injection hose under low pressure (1bar) with water, prior to the reaction (curing) time of SX T. SX T can be used in certain injection hose systems to give re-injection capabilities, consult Corkjoint for further information.

On site training for mixing and processing is available from CORKJOINT upon request.

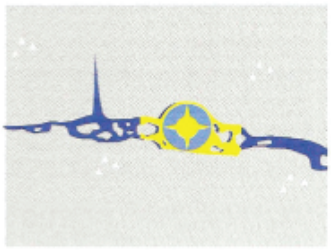
SIMPLE INJECTION PROCESS FOR INJECTION HOSE SYSTEM

1. Check the continuation of the injection hose by flushing with water or with air.
2. The injection hose is injected via the injection point until traces of the SX T injection material is discharged from the vent end (opposite end of injection hose). This vent end is closed by means of an injection nipple as soon as the injected material flows freely (without air pockets) from the vent.
3. The flow and extent of the SX T injection material in the concrete joints can be monitored during the injection process by means of the injection pump's pressure gauge, if using a 2K pump.
4. The injection process is continued until constant pressure has been reached. Constant pressure indicates that the concrete joint is absorbing no more injection material and thus signaling the end of the process.
5. Any SX T injection material still within the injection hose is simply flushed out by means of a water pump and is simple and easy process.
6. On completion of the flushing process, the injection hose is ready for future re-injections, if required.

NOTE: Installation and injection method processes are available upon request. Fully tralned specialist contractors are available to perform the installation and injection processes for CORKJOINT's injection hose system.

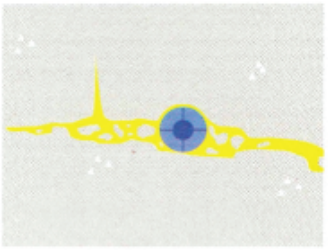


1. Water affected joint



2. Discharge of SX T injection material into the joint

3. Injected joint with SX T injection material



4. Injection hose flushed out ready for future re-injection

PACKAGING

• A1: SX T Resin (acrylic resin)	plastic drum 10kg (= 8,93lt)
• A2: SX T Kat (the catalyst)	plastic bottle 500gm (= 0,23lt)
• B2: SX T Init (the initiator)	plastic bottle of 24g
• Kit Size 10.524kg	
• B1: Water (supplied by installer)	plastic drum 9.16lt

CLEANING

The product if not cured, can be removed with cleaner or water. If cured, then depending upon the substrate, will depend upon the tool required to be used to remove the cured gel, as it adheres very well to most materials.

WRITTEN SPECIFICATION

Where shown in the drawings, the injection material for use must be SX T Acrylic Gel as supplied by CORKJOINT. The application/installation of the product must be in accordance with the manufacturer's recommendations.

HEALTH AND SAFETY INFORMATION

As with all construction chemical products caution should be exercised. Protective clothing such as gloves and goggles should be worn. Treat and wash any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call/seek for medical assistance immediately.

For further information or advice on health and safety precautions, safe handling, storage and correct disposal of products, please refer to the most recent product Material Safety Data Sheet (MSDS), which is available upon request.

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