
Product Description

Tuffjoint 75 Aromatic is a "Slow Set Polyurea" designed for use in interior Control Joints in warehouses and other large slab facilities. Tuffjoint 75 is used to fill and provide superior protection to joint edges preventing spalling / chipping caused by traffic.

Tuffjoint 75 gels in a few minutes, has high elongation and excellent hardness as required for control joints. This two part polyurea is 100% solids, 100% polyurea (not a urethane), and designed to be self-levelling for joints and machine dispensed using a 1:1 ratio dual component application machine. Tuffjoint 75 is used for installations in control joints, and can be sprayed as a membrane for other types of applications. Tuffjoint 75 is sheared or cut to finished grade in about an hour after it has set, depending on the temperature of the slab. In some cases the product can be cut later in the day and/or may be cut the next morning.

Tuffjoint 75 exhibits excellent elongation of approximately 400%+ and is resistant to moisture, chemicals and abrasive conditions. Tuffjoint 75 provides "load transfer" across a standard, saw-cut control joint.

Speed & Set Time: Gels in approximately 5 minutes, sets in 8 to 10 minutes and cures for cutting in about 60 minutes, depending on the temperature of the slab.

Colour: Medium Grey

Advantages

- 100% POLYUREA, LOW COLOR CHANGE
- VERY HIGH TENSILE AND ELONGATION
- RAPID APPLICATIONS & SET TIMES
- STAYS FLEXIBLE IN EXTREME COLD
- NOT SENSITIVE TO MOISTURE
- NON-FLAMMABLE
- QUICK GEL TIME @ 25°C
- SELF-LEVELING
- 100% SOLIDS, NO VOC, NO ODOR
- EXCELLENT ABRASION RESISTANCE
- HIGH IMPACT RESISTANCE
- CHEMICAL RESISTANT

USES AND AREAS

- CONTROL JOINTS – INTERIOR CONCRETE
- AS A SLOW SET SPRAY MEMBRANE
- UTILITY CUTS
- CABLE RUNS & INDUCTIVE LOOPS

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General Physical Characteristics

Solids	100%
Shelf Life	1 year
Hardness ASTM D2240	Shore A 80-85
Hardness Available	A 65, A 75, a 95
Mix Ratio	1:1
Tack Free ASTM D2471	10-25 minutes
Tensile ASTM D412	2800
Tear Strength, pli ASTM 624-C	1.38 MPa
Gel Times	2-5 min. @ 24°C
Elongation ASTM D124	450-500%
Movement % Capability	15%+
Abrasion (H18) ASTM D4060	850 (mg. loss)
Processing Temperature	21°F
Viscosity @ 25°C cps	PART A: 550 PART B: 600

Preparation: Concrete must have a minimum 28-day cure prior to application. Use a dry diamond saw, saw/abrade both sides of the joint walls, and vacuum dust. Remove any curing agent, moisture or any material that may affect bonding. Assure that the joint is properly abraded and cleaned to full depth—approximately 32mm as a standard depth of

fill. For best adhesion, wash the abraded joint walls with acetone or a mix of water/alcohol applied from a tank sprayer, garden spray or similar unit. Allow wash-down to flash off before filling. Always mix part B before using.

Application: Use a TCS recommended 1:1 application machine or equal. Pre-condition Tuffjoint 75; make sure the product is over 22°C before beginning the machine application. Warm the product in the containers as needed to proper working temperature for this product. Use ONLY the TCS recommended static mixing units for this product. Failure to use proper mixers may result in improperly mixed product and/or poor curing. Use proper static mixers with a metal joint tracker on the end of the static mixer. Fill the joint from the bottom of the joint. Make the application with a slight over-pour and trim the over-pour from the joint area. Use stiff blades when shearing joints are larger than 6mm.

Slab Temperature and Working Temperature.

Joints should not be filled in direct sunlight or while the slab is hot. Hot slabs have closed control and expansion joints. The joints of a building slab should be filled when the building is enclosed. For best results the joints should be filled at the working temperature of the building. This is important in areas where the ambient temperature and humidity are high. During the reduction of temperature, due to the operation of air conditions, the slab will dehydrate and shrink

TCS

TUFFJOINT 75



along with the slab's normal shrinkage during cure. This will open saw cut joints, construction joints and expansion joints. If the joints are filled when the joints are hot and the slab shrinks from air conditioning (working temperature) as well as continued curing, then the joints will open and sometimes rip the joint filler material.

Cold Storage Applications: Tuffjoint 75 is adjusted and accelerated for below zero applications; inform TCS when ordering this product for such applications. Slab joints to be filled in areas where the temperature will be below zero should be filled at zero or working temperature. Joints filled at ambient temperatures, prior to the slab being brought down to the cold working temperature, will be damaged as the joints open.

Limitations: Do not use on wet surfaces or expose part A to moisture. Keep out of direct sunlight and store 38 litre kits on wood pallets at room temperature. Warm product kits on pallets before using. Protect from cold conditions when using this product in cold storage.

Shelf Life: 1 year; store between 4.5°C and 38°C.

Finish: Finished mat texture is obtained by shearing or trimming the over-pour to finished grade.

Packaging: 38 Litre kits, 410 litre kits and cartridge kits.

VOC Content: 0 gms/l

Pot Life: Two - three minutes

This product is for use by professional applicators only. Wear Protective Clothing. Read MSDS before using this product.

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