

Triton COLFLEX

A joint and surface-crack sealing system for concrete structures. **Triton COLFLEX** is a high quality, flexible and elastic Hypalon joint sealing strip used in combination with **Triton TRIMOL23 Epoxy Adhesive**.

Field of Application

- **Triton COLFLEX** is applied as a flexible sealing system for concrete joints, such as static day joints, mobile movement joints or shrinkage cracks.
- **Triton COLFLEX** can be applied to joints or cracks which may be subject to positive or negative water pressure (with drainage or surface support).
- **Triton COLFLEX** can also be used for the treatment of isolated cracks in concrete and for the formation of drains in underground waterproofing.

Advantages

- **Triton COLFLEX** can be applied to both damp or dry surfaces using **Triton TRIMOL 23**.
- **Triton TRIMOL 23** has fast curing times, even at low temperatures.
- **Triton COLFLEX** can be used for joints or cracks with large movement ranges.
- The combination remains elastic, even at low temperatures.
- Weather and water resistant.
- Very good all round chemical resistance*.
- **Triton TRIMOL 23** has a very high adhesion to most construction materials.
- Fast and easy to use.

Description

- **Triton COLFLEX** is an elastic sealing strip made of Hypalon. The edges of the sealing strip are perforated at 50mm intervals, to allow the TRIMOL 23 adhesive to encapsulate the tape and anchor it firmly to the substrate.
- Tape thickness is 1mm. Standard widths are 100mm and 150mm.
- **Triton COLFLEX** is supplied on 25m rolls.
- The **Triton COLFLEX** system is bonded into position using **Triton TRIMOL 23** epoxy adhesive.

Application

Triton COLFLEX should be applied to a smooth, prepared and dust-free surface. New concrete should be fully cured and free from residues of any curing agents. During application, water pressure on the tape should be avoided. Eventual water pressure needs to be relieved through placing drains bonded into place with fast setting cement such as **Triton Quick Set**.

Preparation of the joint

- The joint edges should be clean, sound and slightly wider than the width of strip selected. Cleaning can be achieved by rigorous wire brushing, grinding, needle gunning or abrasive blasting.
- Remove dust, dirt and loose particles by vacuuming and brushing.
- Make good any spalling or honeycombing after preparation by using **Triton Repair Mortar**.

Preparation of Triton COLFLEX

- Before use thoroughly degrease the strip and activate with **Triton TRIMOL RESIN CLEANER**
- Use a sufficient quantity of **Triton TRIMOL RESIN CLEANER** applied with a lint free cloth.
- Apply a strip of 25mm masking tape to the centre of the **Triton COLFLEX** strip.

Preparation of the epoxy adhesive

- **Triton TRIMOL 23** is supplied in 0.89 litre (1.33kg) kits.
- Empty the B-component tub completely into the A-component, larger, tub.
- Mix thoroughly by hand, using a flat spatula until a uniform colour is achieved.

Application of the epoxy adhesive

- Apply a strip of masking tape along the edges of the joint to be treated. The tape should be applied 20mm outside the edges of the **Triton COLFLEX** strip.
- Apply **Triton TRIMOL 23** to the exposed horizontal faces of the joint.
- The thickness of the epoxy adhesive layer may vary from 1 to 2mm depending on the surface texture.

Application of the tape

- Embed the **Triton COLFLEX** within 30min of applying the Trimol 23. Press the tape down firmly until the Trimol 23 comes through the anchoring perforations.
- Apply a second layer of Trimol 23, 1 to 2mm thick on top with an overlap of at least 20mm over both edges.

Finishing the joint

- Remove the tape in the middle of the **Triton COLFLEX** strip before the Trimol 23 has fully set.

Heat welding

- Where continuous lengths greater than 25 m are required, strips can be jointed together using heat welding.

Technical Data / Properties

Property	Value	Norm
Triton COLFLEX		
Thickness	1mm	ASTM D-412
Weight/surface	1.7kg / m ² / mm	ASTM D-297
Colour	Light Grey	
Tensile strength	7.6 MPa	ASTM D-412
Elongation at break	Greater than 400%	ASTM D-412
Tear strength	40 MPa	ASTM D-624
Permeability to water vapour	0.69 g/m ² /24 hours	ASTM E-96
Anchoring perforations	1cm from the edge at 5cm interval	
Triton TRIMOL 23 Thixotropic Epoxy Adhesive		
THIXOTROPIC ADHESIVE Mechanical Properties after curing 21 days at 20°C Test temperature 20°C		
Tensile strength ISO/R.527		MPa 14.8
Tensile modulus (E) ISO/R.527		GPa 7.3
Elongation at break ISO 178		% 1
Flexural strength* ISO 178		MPa 37
Compressive strength* ISO 604		MPa 8033
Applied system with Triton TRIMOL 23		
Tensile strength	No less than 7.6 MPa	
Elongation at break	> 220%	

Full chemical or mechanical resistances are only reached after a curing period of 7 days at 21°C. Mechanical properties of epoxy resins decrease at temperatures higher than 50°C.



Appearance

- Triton Colflex : Grey
- Thickness : 1mm

Consumption

Triton COLFLEX: per linear metre of treated joint using Triton TRIMOL 23 (Estimate)

Triton COLFLEX 100mm, 1mm

- 0.60kg/linear m joint (2mm bottom layer, 1mm top layer). One standard Trimol 23 kit is sufficient for 2m of strip.
- 0.80kg/linear m joint (2mm bottom layer, 2mm top layer)

Triton COLFLEX 150mm, 1mm

- 0.9kg/linear m joint (2mm bottom layer, 1mm top layer). One standard Trimol 23 kit is sufficient for 1m of strip.
- 1.20kg/linear m joint (2mm bottom layer, 2mm top layer)

Packaging

Triton COLFLEX rolls

- Width : 100mm and 150mm
- Length : 25m

Storage

Triton COLFLEX unlimited in a dry place

Triton Trimol 23 should be stored in the original packaging in a dry area. Storage temperatures must be between 5°C and 30°C. Once tubs been opened, the useful life of the material is greatly reduced and should be used as quickly as possible. The pot life of the mixed adhesive varies with temperature, at 20°C the pot life is approximately 40 minutes.

Shelf life: 1 year (unopened)

Accessories: (To be ordered separately)

Triton TRIMOL 23 Epoxy Adhesive (See data sheet for more information)

Triton TRIMOL RESIN CLEANER

Health & Safety

Epoxy resins and solvents can irritate skin and mucous membranes.

Always wear rubber gloves and protective goggles. In case of splashes in the eyes, rinse abundantly with water and contact physician.

For additional information, consult the relevant MSDS.

Colflex strip itself is non-hazardous.

For further information please contact:

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