

# COLFLEX HN

Flexible joint system for movement joints in concrete decks.

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## Product Description

Colflex HN is an elastic sealing tape made of NBR rubber combined with Multitek epoxy adhesive as a jointing system for movement joints in concrete decks. Colflex HN has a double row of 3 mm offset anchoring perforations every 1 cm at 5 mm from the edge enhancing the adhesion to concrete and stress load on Colflex HN during joint movement. For GCP liquid waterproofing system for concrete roof decks and similar structures use Colflex HN 200 mm or Colflex HN 250 mm width.

## Advantages

- High adhesion – offset anchoring and Multitek adhesion performance.
- Damp surface installation – with Multitek adhesive SDW.
- Safer installation – no need of electrical equipment such as hot air gun for overlapping.
- Movement accommodation even at low temperature – up to +/-20% of unbonded Colflex HN width.

## Applications

For waterproofing movement joints in concrete decks and walls upstands. Sealing system for concrete joints subject to negative or positive water pressure for new construction or refurbishment.

## System Components

- **Colflex HN:** 200 and 250 mm wide – NBR rubber sealing tape
- **Multitek adhesive SDW:** solvent free 2 component epoxy glue – for bonding the Colflex HN on surface
- **Multitek cleaner:** mixture of solvents – for cleaning the Colflex HN tape before adhesive application
- **MS Fixer:** 1 component caulk applied elastic MS polymer adhesive – for Colflex HN overlap
- **MEK:** solvent for cleaning tools used with Multitek Adhesive SDW

## Installation

### Preparation of the joint

- The joint edges need to be clean and sound. This can be achieved by brush or sandblasting.
- Remove dust, dirt and loose particles with compressed air or brush.

### Preparation of Colflex HN

- Colflex HN sheet needs to be clean and free of grease or dust before application.
- In case cleaning of the Colflex HN sheet is needed, this can be done using Multitek Cleaner and a clean lint free cloth.
- Apply a strip of masking tape to the centre of the Colflex HN sheet.

## Preparation of Adhesive

- Multitek Adhesive SDW is supplied as pre weighted kits.
- Empty B-component completely into A-component (large pail).
- Mix thoroughly until a uniform colour is achieved. Mix with an electric or pneumatic mixer at low speed (approx. 500 rpm).

## Application of Adhesive

- Apply a strip of masking tape to the edges of the joint to be treated. The tape should be applied 2 cm beside the edges of the Colflex HN sheet.
- Apply Multitek Adhesive SDW to the edges of the joint.
- Thickness of the layer should be 1 to 2 mm depending on the surface texture.

## Application of Tape

- Apply Colflex HN within 30 min onto the layer of glue. Press the tape down firmly until glue comes through the anchoring perforations.
- Apply a second layer of glue 2 mm thick on top with an overlap of at least 2 cm over both edges.

## Finishing the joint

- There should be a debonding tape on top of the Colflex and then the detail should be completely covered by Silcor.

## Connection between 2 ends of Colflex HN

- Colflex HN can not be welded with a hot air blower or chemical welding.
- Colflex HN roll ends are jointed using MS Fixer.
- An overlap of at least 10 cm needs to be provided. Make sure to align the anchoring perforations in the tape.
- Colflex HN roll ends need to be jointed before application of the joint into the Multitek Adhesive epoxy.
- Remove the masking tape from the overlap and thoroughly clean and degrease the overlap sides with Multitek Cleaner.
- Apply a layer of 1 mm thick MS Fixer over the entire overlap surface of the bottom Colflex HN tape.
- Apply the second roll end into the fresh applied MS Fixer and press down with a non-adhering roller removing all entrapped air from underneath the top roll end.
- Reapply the masking tape in the middle of the joint and in the middle of the second roll length.
- Apply the jointed Colflex HN with Multitek Adhesive SDW according to the procedure above.

## When Multitek adhesive SDW is cured (seven days),

Silcor® membrane or Servidek/Servipak will be applied directly on top of the Multitek adhesive SDW substrate. The liquid membrane should not be applied in the middle of Colflex HN, above the joint width (see drawing on front page). A masking tape can be installed before liquid membrane application. The masking tape will be removed before the liquid membrane set.

## Cleaning:

Clean all tools immediately with MEK cleaner

## Adhesive Consumption

Colflex HN: 1 m per linear metre of treated joint Multitek Adhesive

Colflex HN 100 mm:

- 1.1 kg/linear m joint (2 mm bottom layer, 2 mm top layer).

Colflex HN 200 mm:

- 1.7 kg/linear m joint (2 mm bottom layer, 2 mm top layer).

Colflex HN 250 mm:

- 2.5 kg/linear m joint (2 mm bottom layer, 2 mm top layer)

Overlap 10 cm width MS Fixer

- Colflex HN 100 mm : 15 g/10 cm overlap.
- Colflex HN 200 mm : 30 g/10 cm overlap.
- Colflex HN 250 mm: 40g/10 cm overlap

## Health and Safety

Read the product label and Safety Data Sheet (SDS) before use. Users must comply with all risk and safety phrases. SDS's can be obtained from GCP Applied Technologies or from our web site at [gcpat.com](http://gcpat.com).

## Supply

MATERIAL	PACKAGING	STORAGE
Colflex HN	250 mm x 1.2 mm x 20 m rolls	Shelf life unlimited in dry area between +5 °C to +30 °C
	200 mm x 1.2 mm x 20 m rolls	
	100 mm x 1.2 mm x 20 m rolls	
Multitek Adhesive SDW	5 kg sets (5.76 kg gross)	In its original packaging in dry area between +5 °C to +30 °C Shelf life 2 years for unopened packaging
	A component: 3.75 kg	
	B component: 1.25 kg	
MS fixer	400 cm <sup>3</sup> sausages in cardboard of 20 sausages	In dry area between +5 °C to +30 °C Shelf life 9 months for unopened packaging
Multitek Cleaner	5 L plastic jerry can – 4 kg	Free from ground in a cool, well ventilated & dry area away from direct sunlight and source of ignition Shelf life 12 months for unopened packaging
	25 L plastic jerry can – 20 kg	

MEK	5 L plastic jerry can – 4 kg	In a cool & dry area away from direct sunlight and source of ignition
	25 L plastic jerry can – 20 kg	

Physical Properties

COLFLEX HN	VALUE	TEST METHOD
Weight/surface (kg/m²)	1.22	
Colour	Grey	
Tensile Strength (N/mm²)	Longitudinal: 8.1 Transverse: 8.5	ISO 527
Elongation at break (%)	Longitudinal: 440 Transverse: 360	ISO 527
Hardness Shore A	65	
Angle tear resistance (N/mm)	10.8	ISO 34-1

North America customer service: 1-877-4AD-MIX (1-877-423-6491)

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