



INDU-FLEX-CJ13

Art.-No. 5 55111

Thermoplastic expansive waterstop for waterproofing construction joints

Product Description:

INDU-FLEX-CJ13 is an ultra thin profiled, re-swellable, thermo-plastic waterstop based on the most updated technology to overcome problems commonly known with Bentonite waterstops during installation, concrete pouring and even after commissioning of the structure. Extensive care was incorporated in the design to overcome typical difficulties experienced on site with cast in situ concreting.

Properties:

- Easy to fix.
- Ultra expansion ability in distilled, potable & sea water.
- Suitable for use in potable water structures.
- Infinite re-swellability (unaffected by continued wet/dry cycles).
- Full dimensional stability.
- Effective seal maintained in wet conditions.

Advantages:

- Easily installed where accessibility is limited.
- Unlike conventional PVC waterstops, no complex shuttering required.
- Unlike Bentonite waterstops:
 - Ultra slim profile reduces risk of pocketing around edges.
 - Ultra slim profile & increased flexibility enables better accommodation of surface undulations.
 - Ultra expandability ensures tight sealing.
 - Resilient to displacement & damage.
 - Delayed expansion start (approx. 6 hours).
 - Very slow water loss after structure is emptied & dry.
 - Swellability unaffected by continuous wet/dry cycles.
 - Stable dimensions even when extended or on exposure to elevated temperatures (80 °C).
 - Does not lose its body.
- Grooved profile:
 - For better keying with fresh concrete.
 - Increases water path.

- Ensures accurate distancing from edge for mechanical fixing.

- No welding or special pieces required for "T" & "X" connections.
- Multi-installation options; nailing or adhesive.

Areas of application:

INDU-FLEX-CJ13 is typically used in:

- Water tanks
- Waste water treatment structures
- Sewage treatment structures
- Dams
- Basements
- Marine structures such as dry docks
- Pile caps
- Secant pile walls
- Diaphragm walls

Substrate preparation:

The substrate must be load-bearing, mostly flat and have a closed surface texture. It must be free from gravel pockets, cavities, gaping cracks, dust and be free from adhesion inhibiting substances. Laitance layers are to be removed, mechanically abraded (sand blasted) as necessary. During the application of INDU-FLEX-CJ13 the substrate may be matt damp. The formation of puddles is not permitted.

Product application:

It is essential that there is > 8 cm of concrete from the side exposed to water. INDU-FLEX-CJ13 can be bonded with the installation adhesive for expansive waterstops.

Thoroughly apply the installation adhesive to the prepared substrate and press the INDU-FLEX-CJ13 into the adhesive until it oozes from the underside. The concreting process can proceed no earlier than 8 hours after bonding. Alternatively the INDU-FLEX-CJ13 can be secured using steel nails (min. 5 nails per metre). The connecting of waterstops can be carried

INDU-FLEX-CJ13

out by overlapping by a minimum of 30 mm or by butt jointing. It is essential that both the waterstops are tight up against one another to avoid flaws. Butt jointed waterstops are to be secured with a separate waterstop overlapped to both by a minimum of 30 mm.

Technical Data:

Basis:	TPE (thermoplastic elastomer)
Format:	Waterstop profile is quadratic + flexible
Colour:	red
Dimensions:	5 x 20 mm
Start of swelling on water contact:	approx. 6 hours
Expansion ability:	approx. 140% after 24 hours approx. 400% after 72 hours approx. 800% after 14 days
Specification compliance:	Standards of DIBt, Berlin: Bauregelliste A, Part 2, No. 1.4
Water pressure resistance:	2 bars at joint width of 0.25 mm 1.5 bars when joint width is increased from 0.25 mm to 1.0 mm
Toxicity:	none
Packaging:	25 m rolls = 175 m per box
Storage:	dry, frost free and protected from weathering, max. 5 years in the original unopened packaging.

Advice:

- It is essential to store the waterstop dry.
- Waterstops must lie flat and planar on the concrete. There must be no contaminants beneath the waterstop.
- Protect the waterstop from moisture until the concrete is poured.
- Before commencing the concreting process visually inspect the waterstop. Heavily swollen waterstop tape is unsuitable and must be removed.
- Waterstops are not suitable for movement joints.