

SERVISTrip® AH 205

Solid, Active Jointing Strip which swells when exposed to water to prevent leak paths in concrete

Advantages

- * **Active protection** - up to four fold increase from original volume when exposed to water to caulk joints against hydrostatic pressure
- * **Solid strip** - unlike hollow core products, Servistrip® AH allows uniform swelling to take place since whole of hydrophilic strip expands.
- * **Simple jointing** - no special techniques or cyano acrylic glues required.
- * **Delay coating** - prevents premature swelling during installation and avoids spalling of fresh concrete.
- * **Cost effective** - easily installed into a variety of existing or new structures using adhesives or mechanical fasteners.
- * **Accommodates complex pours** - hydrophilic strip can be bent on site, overlapped and added to suit complicated shapes and pour sequences.
- * **Durable** - exceeds the life expectancy of most structures even under repeated wet/dry cycling

Applications

Servistrip® AH 205 is a hydrophilic solid rubber strip that exceeds the performance of thinly coated or hollow swellable strips. Servistrip®AH 205 can be cast into insitu concrete or used between insitu/existing concrete sections to provide a highly effective watertight seal. The delay coating is designed to prevent premature swelling for 7-10 days while being installed or when wet concrete is placed. This also controls the rate of expansion so that the swelling pressure does not cause spalling or damage to freshly poured concrete before it has time to reach its design strength.

The simple, solid form also allows it to be used in difficult locations such as diaphragm and contiguous walls or scabbled concrete surfaces where any other sealing method would be impossible to require special complex waterproofing details.

Expansion Joints

Servistrip® AH is suitable only for construction joints, but can be combined with System AH co-extruded PVC waterstops at expansion joints (see separate datasheet), Special spring clips attach the Servistrip® AH to the hydrophilic element of the Servistrip®AH 200 waterstop as shown overleaf.

SUPPLY

Servistrip® AH 205

Section:	20mmx5mm
Roll Length	15 metre
Palletisation	10 rolls/ carton (150m)
Weight of carton	23kg

Storage

Keep dry under cover in original wrapping to prevent premature swelling

Ancillary Products

PakAdhesive (contact type)	5 litre can for bonding Servistrip® AH 205. Two coat coverage 50m per litre
----------------------------	---

Equipment by Others

Aerosmith pneumatic nailer Model 90CT with pins and washers
 Masonry nails or Hilti DX 36M Cartridge Gun and cartridges with fastening nails and steel washers (consult with each manufacturer on size and type to be used). Stanley knife for trimming, wire brush for cleaning, paint brush for adhesive.

Installation

Application Temperature

- * + 4 ° c to +45° C using Pak Adhesive Bonding
- * -15° C to +45° C using mechanical fixings

Preparation

Before commencing the application, knock-off all loose materials and debris to give a surface suitable to accept the Servistrip®AH 205. The method of application will be dependant on the substrate strength, texture, smoothness, alignment, and whether a housing rebate has been formed to accept the Servistrip®AH 205.

Location

The Servistrip®AH 205 is generally located at the centre of walls and slabs to avoid the reinforcement but it may be positioned on the underside of slabs which are ground bearing. The method of fixing must be capable of resisting displacement from wet concrete and poker vibrators. It is essential to make a continuous network for all the joints which are subjected to water ingress or hydrostatic pressure. The Servistrip® AH 205 is fastened in position using the appropriate method and jointed in the straight run by closely overlapping by 100mm. Intersections at right angles, etc. are formed by direct contact at cross over points and extending 100mm past line of joint

Fixed Methods

Bonding with Pak Adhesive

Substrate surface to be clean and dry free from loose material and prepared by wire brushing and patched as required before applying a brush coat of Pak Adhesive 25mm wide where the Servistrip®AH 205 is to be located. Pre-cut Servistrip®AH 205 to suit position and changes in direction. Generally it can be bent on site at corners or spliced by having 100mm overlaps.

SERVISTrip® AH 205

Solid, Active Jointing Strip which swells when exposed to water to prevent leak paths in concrete

Coat flat side of Servistrip® AH 205 with a brush coat of Pak Adhesive and leave until touch dry before bonding onto the substrate. Work on substrate and Servistrip® AH 205 together so that bonding is made when the contact adhesive has the maximum bonding characteristics, and avoids contamination from dust and rain. Ideally Servistrip® AH 205 should be placed in preformed rebate so that it is not displaced during the concreting and compaction process

Bonding with Epoxy Mortar

If the substrate is irregular and rough Servistrip® AH 205 can be bonded in place using a continuous thin strip of non-slumping epoxy mortar.

Mechanical Fixing

Where the substrate is rough, Servistrip® AH 205 can also be fastened in place using masonry nails, shot fired fixings or pneumatic nailers with steel washers at approximately 300mm centres which do not depend on substrate condition or dryness. But Servistrip® AH 205 must be held in close contact to the substrate to be effective. However, the substrate strength will need to be checked to determine whether a mechanical fixing can be safely and securely driven without damaging the Servistrip® AH 205.

Pipes and Penetrations

Servistrip® AH 205 to be bonded or fastened to pipes, stanchions, sheet piling, columns, etc. to form a continuous close contact strip with 100mm overlaps at joints. It may be necessary to remove any loose paint, rust or other coatings before bonding in place with Pak Adhesive or using tying wire to prevent displacement during pouring.

Repair

If Servistrip® AH 205 is damaged prior to concreting it can be reinstated by overlapping the area with an extra length of Servistrip® AH 205 extending 100mm each side beyond the damage and fastened in the prescribed manner.

Health and Safety

Refer to relevant Material Safety Data Sheets.

Specification Clause

Servistrip® AH 205 jointing system shall be fastened in position to give a continuous network with 100mm minimum overlaps and installed in accordance with the manufacturer's instructions and supplied.