

# Servistrip® AH 205

Solid, active jointing strip which swells when exposed to water to prevent leak paths in concrete.

## Advantages

- **Active protection** - expands in contact with water, to seal joints against hydrostatic pressure.
- **Solid strip** - unlike hollow core products, Servistrip® AH allows uniform swelling to take place.
- **Simple jointing** - no special techniques or cyanoacrylic glues required.
- **Cost effective** - easily installed into a variety of new or new to existing structures using adhesives or mechanical fasteners.
- **Accommodates complex pours** - hydrophilic strip can be jointed 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 in-situ concrete or used between new and existing concrete sections to provide a highly effective watertight seal. The rate of swelling is controlled to allow installation and exposure to rain. The swelling pressure does not cause spalling or damage to freshly poured concrete before it has time to reach its design strength.

## Expansion Joints

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

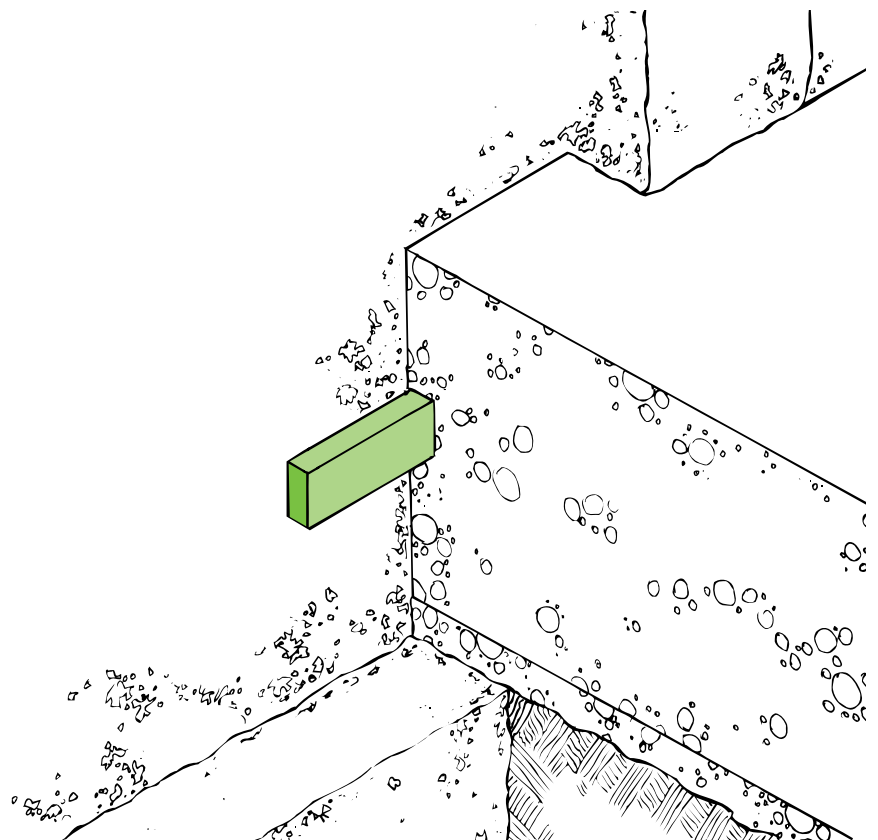
## Installation

### Application Temperature

+4°C to +45°C using Pak Adhesive for fixing or -15°C to +45°C using mechanical fixings.

### Preparation

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



## Supply

### Servistrip® AH 205

Section	20 mm x 5 mm
Roll length	10 metre
Palletisation	10 rolls per carton (100 m)
Weight of carton	14.5 kg

### Storage

Keep dry under cover in original wrapping to prevent premature swelling

### Ancillary Products

Pak Adhesive (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.

### Location

It is essential to make a continuous network for all the joints that are subjected to water ingress or hydrostatic pressure. Servistrip AH 205 is fastened in position using the appropriate method and jointed by overlapping a minimum 100mm. Minimum depth of concrete cover should be 75mm. Always position Servistrip AH 205 within the reinforcement cage.

### Fixing 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 and allowed to touch dry.

Pre-cut Servistrip AH 205 to suit position and changes in direction and coat with Pak Adhesive and leave until touch dry before bonding to substrate. Bonding is made when the contact adhesive has the maximum bonding characteristics, and avoids contamination from dust and rain. Generally it can be bent on site at corners or spliced by having 100mm overlaps.

Servistrip AH 205 may be placed in a preformed rebate so that it is not displaced during the concreting and compaction process. Alternatively use a continuous thin strip of non-slumping epoxy mortar.

### Mechanical fixing

Where the substrate is uneven, 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.

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 can be fastened to pipes, stanchions, sheet piling, columns, etc. with tying wire 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.

### Precautions

Servistrip AH 205 will be suitable for most weather conditions but heavy rain or prolonged immersion in water will cause the strip to expand. If this happens

it will be necessary to allow it to dry out or be dried using a hot air gun before allowing concrete to be cast.

### Health And Safety

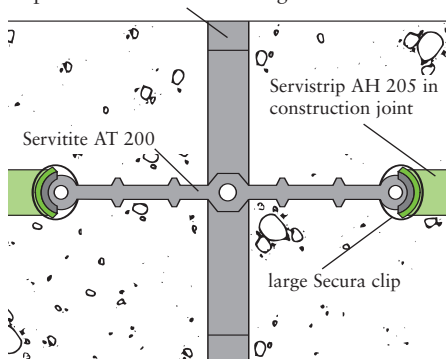
There is no legal requirement for a Material Safety Data Sheet for Servistrip AH 205 or Secura clips. For health and safety questions on these products please contact Grace Construction Products Limited.

For Pak Adhesive read the product label and Material Safety Data Sheet (MSDS) before use. Users must comply with all risk and safety phrases. MSDS's can be obtained from Grace Construction Products or from our web site at [www.graceconstruction.com](http://www.graceconstruction.com).

### NBS Specification Clause

Refer to Clause E40 310.

Grace Serviced® Filler and sealant. Type dependent on movement range



**Servistrip AH 205 attached to Servitite AT 200 at Expansion Joints**

*Details shown are typical illustrations only and not working drawings. For assistance with working drawings and additional technical advice please contact Grace Technical Services*

**web** Visit our web site at [www.graceconstruction.com](http://www.graceconstruction.com)

Grace Construction Products Ltd, Ajax Avenue, Slough, Berkshire SL1 4BH United Kingdom Tel +44 (0)1753 692929 Fax +44 (0)1753 691623

Adcor, Aerofil, BETEC, Bituthene, Hydproduct, Insupak, Korkpak, Paraflex, Paraseal, Preprufe, Procor, Serviced, Servidek, Servigard, Servijoint, Servimastic, Servipak, Servirufe, Serviseal, Servistrip, Servitite, Vertigard and Vertiseal are registered trademarks of W R Grace & Co.-Conn.  
Adprufe, Armourtape, Bitushield, Bitustik, Bitutape, Hydropaste, Pak Adhesive, PVC Edgetie, Serviband, Serviflex, Servitape, Slipstrip, and Solarshield are trademarks of W R Grace & Co.-Conn.

The information given is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification. Since the conditions of use are beyond our control we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale including those limiting warranties and remedies which apply to all goods supplied by us. No statement, recommendation or suggestion is intended for any use which would violate or infringe statutory obligations or any rights belonging to a third party.

Copyright 2006. Grace Construction Products Limited.

Printed in England - 05.06- Ref. W005C

**GRACE**  
Construction Products