

Concrete Deck Waterproofing - Ancillaries

Serviband™

Flexible joint system for buried movement joints in concrete decks.

Description

Serviband™ is a resilient elastomeric sheet and adhesive jointing system for buried movement joints in concrete decks. Serviband can be used with Procor® Deck Systems 2 and 4R to form a continuous waterproofing system for concrete roof decks and similar structures.

Principal Applications

For waterproofing buried movement joints in concrete decks and walls/steel upstands.

System Components

- **Serviband™** - 200 mm wide elastomeric sheet.
- **Serviband™ Substrate Adhesive** - one part adhesive.
- **Serviband™ Sand** - for blinding Serviband Substrate Adhesive prior to installing Procor® Liquid Waterproofing.

Application

Application temperature range:

Serviband can be installed at ambient temperatures of +5°C to +40°C.

Surface Preparation:

All concrete surfaces should be mechanically scabbled, needle gunned or blasted to remove all laitance and contaminants. All loose and friable surface deposits must be removed, by vacuuming, to provide a clean, sound, dense base. Do not apply Serviband Substrate Adhesive to frosted surfaces. Slightly damp (not wet) surfaces are acceptable. New concrete should be minimum 21 days old. Steel surfaces should be grit blasted or similar.

Joint Preparation:

Movement joints should be filled with Aerofil® joint filler board and Vertiseal® CE sealant. Check with Grace that the maximum anticipated movement of the joint can be accommodated by both Vertiseal CE and Serviband.

Installation:

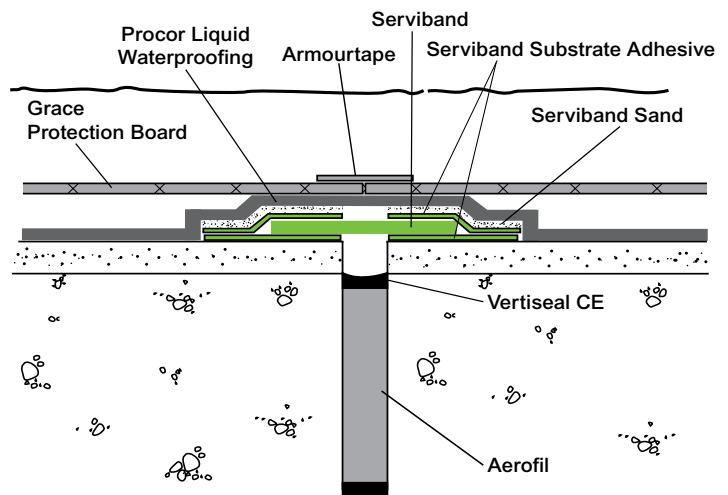
Mask the joint sealant to prevent Serviband Substrate Adhesive sticking to it.

Apply the adhesive to the prepared substrate on both sides of the joint with a standard air or hand operated gun. The adhesive should be applied at a thickness of between 1 and 2 mm with a trowel or toothed comb. Ensure the adhesive line is a minimum 25 mm wider than the Serviband sheet. Minimum width of adhesive on either side of joint should be 75 mm. On damp surfaces ensure the adhesive is well worked into the concrete to allow bond to develop.

Place cleaned Serviband sheet into the adhesive, red tape side facing upwards. Roll the Serviband sheet into the adhesive to remove any trapped air. Ensure the adhesive beneath the Serviband seeps through the perforations at the edges of the sheet. Where the joint movement exceeds 25% of the joint width, this could be accommodated by forming a slight 'loop' in the Serviband (contact Grace for further guidance).

Immediately apply the second layer of Serviband Substrate Adhesive, to a thickness of 1 mm to 2 mm, on to the minimum 25 mm excess width of the first adhesive layer and on top of the Serviband.

Remove red masking tape from mid line of joint.



Typical buried joint detail

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

Advantages

- **Compatible with Grace waterproofing systems.**
- **Resists water pressure** - up to 20 m.
- **Movement accommodation** - up to $\pm 12.5\%$ of joint width.
- **Remains elastomeric at low temperatures.**
- **On site jointing with hot air gun.**
- **Can be applied to damp surfaces.**
- **No cleaning required.**

Supply

Serviband™	200 mm x 20 m rolls
Serviband™ Substrate Adhesive	600 ml sausage (12 per box)
Serviband™ Sand	25 kg bag
Consumption Per Linear Metre	
Serviband™ Substrate Adhesive	300 ml depending on joint width and surface irregularity
Serviband™ Sand	3.5 - 5.0 kg
Storage	Store unopened, internally between +5°C and +25°C. Shelf life maximum 12 months.

Application Equipment by others:

Solid barrel gun, trowel or toothed comb.

Physical Properties

Serviband	Typical Value
Elongation at break	> 400%
Tensile Strength	> 6.0 N/mm ²
Maximum Movement movement,	25% of unbonded width (for higher place in a slight 'loop')
Maximum Hydrostatic Pressure	up to 20 m (depending on joint design)

All test results shown in this data sheet are determined under laboratory conditions and with the product sample taken directly from stock in its original packing without any alteration or modification of its component parts.

Whilst the Serviband Substrate Adhesive is still tacky, scatter Serviband Sand over the full surface area of the adhesive.

Leave to dry then vacuum up all unbonded sand. Ensure no unbonded sand or dust is on the adhesive before the application of waterproofing.

Site Jointing:

Joints in Serviband can be formed with a hot air gun. Minimum lap 50 mm.

Do not overheat the Serviband when using a hot air gun, and test a specimen joint for bond strength. Vertical 90 degree corners should be formed by gently heating with a hot air gun and forming a 'seam' in the Serviband.

Protection:

Serviband must be protected from mechanical damage prior to and during installation of finishes. Grace Protection Board is ideal for this task. Inspect Serviband for damage before finishes are installed.

NBS Specification Clause

Refer to Clause J31.

Health and Safety

For Serviband Substrate Adhesive, and Serviband Sand 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.

www.graceconstruction.com

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