

# Serviband™

## Flexible joint system for buried movement joints in concrete decks.

### Description

Serviband™ is a resilient elastomeric sheet and epoxy 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.

### Advantages

- Compatible with Grace waterproofing systems.
- Resists water pressure - up to 20m.
- 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.

### 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 - two part epoxy adhesive.
- Serviband™ Cleaner - for cleaning Serviband prior to installation.
- Serviband™ Quartz 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 + 30°C

#### Surface Preparation:

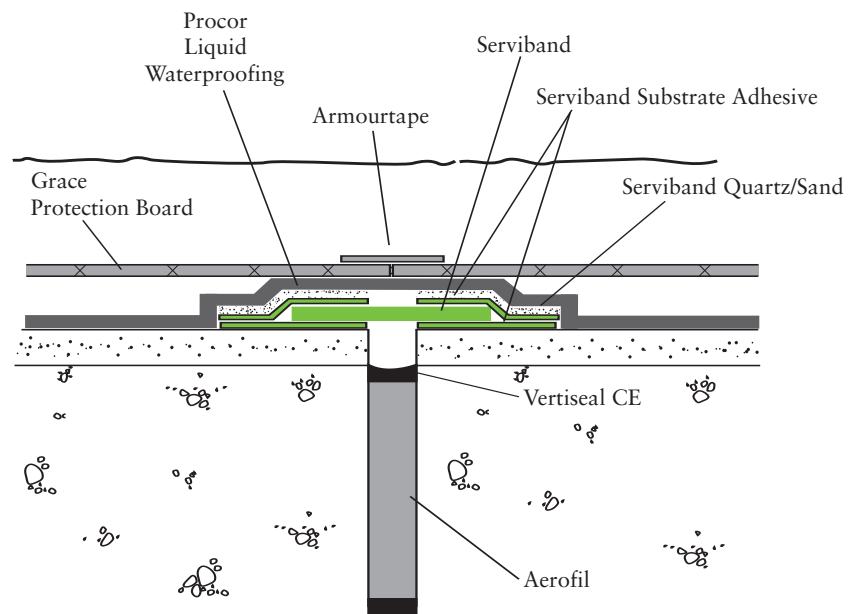
All concrete surfaces should be mechanically scabbled, needle gunned or blasted to remove all laitance and contaminants. All loose and friable surface deposits must be removed, by vacuuming, to provide a clean, sound, dense base. Do not apply Serviband Substrate Adhesive to frosted surfaces. Damp (not 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.

#### Serviband Sheet Preparation:

Both faces of Serviband should be thoroughly cleaned with Serviband Cleaner poured onto a clean cloth, avoid using too much cleaner as this could damage the sheet. Allow the cleaner to fully dry before installing the Serviband (one to five hours depending on ambient temperature). Ensure no dust or other contaminants get onto the surface of the Serviband whilst the cleaner is drying.



Typical buried joint detail

## Supply

<b>Packaging</b>	
Serviband™	200 mm x 20 m rolls
Serviband™ Substrate Adhesive	6 kg tin
Serviband™ Cleaner	3 ltr tin
Serviband™ Quartz Sand	25 kg bag
<b>Consumption Per Linear Metre</b>	
Serviband™ Substrate Adhesive	1.5 - 2.0 kg depending on joint width and surface irregularity
Serviband™ Quartz Sand	3.5 - 5.0 kg
<b>Storage</b>	Store unopened, internally between +5°C and +25°C. Shelf life maximum 12 months

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.

Whilst the Serviband Substrate Adhesive is still tacky, scatter Serviband Quartz Sand over the full surface area of the adhesive. Leave to dry then vacuum up all unbonded quartz. Ensure no unbonded quartz 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. Ensure Serviband is cleaned with Serviband Cleaner before jointing, allow cleaner to dry.

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.

### Cleaning

Clean all tools immediately with Serviband Cleaner.

### NBS Specification Clause

Refer to Clause J31.

### Health and Safety

For Serviband Substrate Adhesive, Serviband Cleaner, and Serviband Quartz 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).

## Physical Properties

	Typical Value	
<b>Serviband:</b>		
Elongation at break	> 400%	
Tensile Strength	> 6.0 N/mm <sup>2</sup>	
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)	
<b>Serviband Substrate Adhesive:</b>		
Bond to concrete	2.0 N/mm <sup>2</sup>	
Pot life	20°C	10 mins
	10°C	30 mins
	5°C	1 hour

### Installation:

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

Mix the two components of Serviband Substrate Adhesive together, using an MR2 paddle and a slow speed drill for a minimum of 3 minutes, ensure an homogeneous colour, free of streaks, is achieved. Apply the adhesive to the prepared substrate, both sides of the joint, to a thickness of 1 mm to 2 mm using a cut down paintbrush or spatula. 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

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