

▶ Description



TamSeal BBR is a pre-formed, hydrophilic waterstop consisting of sodium bentonite and butyl rubber. It will swell up to 750% when in contact with fresh water. When fully encapsulated by poured concrete, the expansive forces form a seal against the concrete surfaces. This seal resists hydrostatic pressure, stopping water from entering the sub-structures. TamSeal BBR is able to withstand a 40 metre head of pressure. As with any hydrophilic waterstop, TamSeal BBR will return to its original size if the concrete and substrate is completely dry and no more moisture is present. If water or moisture is introduced again, TamSeal BBR will re-expand.

▶ Key Benefits

- Easy to use
- Swells into unconsolidated concrete surfaces upon contact with water
- Eliminates split forming, wiring to rebar, heat welding of splices.
- Remains flexible in cold weather
- Excellent chemical resistance

▶ Typical Applications

- Residential and commercial basements
- Secondary containment structures
- Highway tunnels
- Concrete lined storm drainage and irrigation channels
- Tunnels and underground structures
- Wastewater treatment plants and water theme parks

▶ Technical Data

TamSeal BBR	
Colour	Black
Size	20mm x 25mm
Swelling after total immersion	28 day - 750% Max
Density	1.25

All technical data stated herein is based on tests carried out under laboratory conditions.

▶ Application Guidelines

**Surface Preparation**

All Joint surfaces must be thoroughly cleaned, dry and free from laitance, dirt, oils, release agents, curing compound, debris, etc. before priming and just prior to placing TamSeal BBR. Concrete should cure a minimum of 24 hours prior to priming. Use a wire brush or stiff bristle brush to clean surface prior to priming.

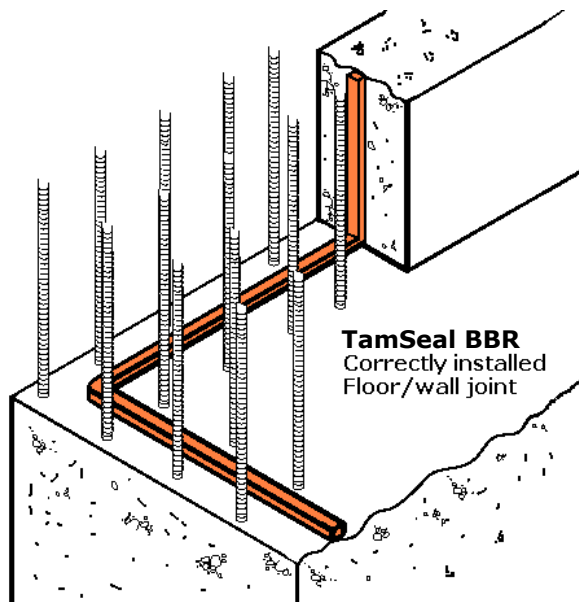
**Positioning**

TamSeal BBR is generally positioned in the centre of the joint. It may be placed at the bottom of a keyway if a keyway is incorporated into the joint design. However, a keyway is not required for the use of TamSeal BBR.

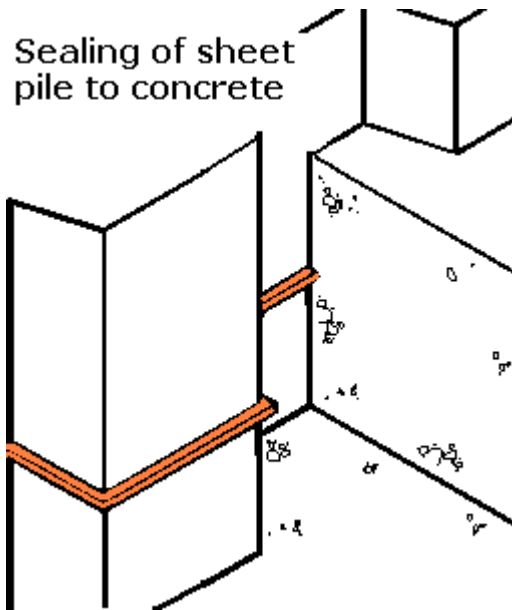
**Application Method**

Minimum concrete coverage of 50mm is required when using TamSeal BBR. Apply TamCrete Bond & Seal to prime the cured surface and allow to dry. Drying time generally takes 2 to 3 hours. Drying time will take longer in low temperatures and in humid environments.

Leave the silicone release paper in place, begin uncoiling TamSeal BBR while pressing the strip firmly onto the primed surface throughout the entire length of the strip. Tightly butt ends together at splices. Alternatively, ends may be spliced together with a 25mm side lap, if space permits (50mm of concrete coverage is required). Remove the release paper and pour concrete directly against the TamSeal BBR. This waterproof system is complete when the fresh concrete cures.



## Sealing of sheet pile to concrete



Do not allow TamSeal BBR to be exposed to rain or standing water for more than 6 hours prior to pouring.

### Limitations

TamSeal BBR is designed for use in non-moving joints. Contact your local TAM International representative regarding specific applications where joint movement may be expected.

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### ▶ Storage

TamSeal BBR should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of 1 year can be expected.

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### ▶ Health & Safety

TamSeal BBR should only be used as directed. We always recommend that the Health & Safety data sheet is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Health & Safety data sheet is available upon request from your local TAM International representative.