

## DESCRIPTION



TamSeal 800 is a high performance, single component EVA polymer, flexible waterproofing membrane. In large applications, TamSeal 800 can be spray applied using a dry rotor machine by hand or robotic spraying. For smaller applications it can be applied by brush. TamSeal 800 provides a tough, durable, seamless, waterproofing membrane for many structures including tunnels, shafts and caverns.

## KEY BENEFITS

- > Fast and easy application particularly for complex underground geometries.
- > Waterproof: zero penetration beyond membrane when tested in accordance with BS EN 12390-8:2000.
- > TamSeal 800 is safe, non-toxic and should be handled as per other cementitious construction materials.
- > Excellent adhesion, bond to concrete and steel of 1.5MPa or greater when tested in accordance with BS EN ISO 4624:2003.
- > When sandwiched between layers of concrete, the double bond (Example: To the primary concrete substrate and overlying secondary concrete) enhances the waterproofing performance.
- > Tough and flexible and suitable for use with steel fibre sprayed concrete.
- > Fast initial curing time, tack free in 2 to 3 hours.
- > Fast complete curing time, can be over-coated with concrete after 24 hours.
- > Exhibits excellent crack bridging capabilities when tested in accordance with BS EN 1062-7: 2004, with capacity proportional to thickness and 150% elongation when tested against ASTM D412-06a.

- > TamSeal 800 is non-ignitable: Class E when fire tested against BS EN ISO 11925-2, single-flame source test.
- > Unlike conventional coatings, which require the concrete to cure for 7 - 28 days, TamSeal 800 can be applied to 24 hour old concrete to give immediate protection.
- > Can be connected to other waterproofing materials with standardised joint details.

## TYPICAL APPLICATIONS

TamSeal 800 can be applied to a multitude of substrates and works most efficiently between two layers of structural concrete lining, in such situations as:

- > Sprayed concrete tunnel and shaft linings
- > Diaphragm wall and contiguous pile boxes
- > Underground basements
- > Sprayed concrete caverns
- > Protecting concrete against aggressive water ingress in mines and excavations
- > Water retaining structures

## TECHNICAL DATA

TamSeal 800	
Form	Powder
Colour	Light Grey and Orange versions
Application Thickness	2 mm upwards
Bond Strength to Concrete	1.5 MPa
Bond Strength to Steel	2 MPa
Elongation	150%
Consumption	1.0 kg/m <sup>2</sup> at 1 mm thick
Determination of Liquid Water Permeability EN1062-3	Non Permeable

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

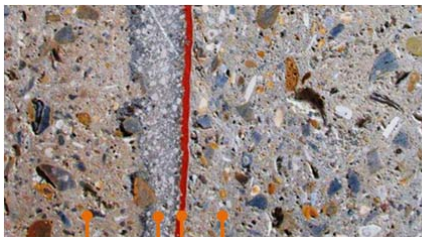
### Chemical Resistance and Durability

When encapsulated between layers of concrete lining TamSeal 800 can be expected to maintain performance throughout the life of the structure.

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## APPLICATION GUIDELINES

- > All surfaces must be thoroughly cleaned and free from laitance, loose material, dust, dirt, oil, grease and all contaminants.
- > TamSeal 800 should be applied onto a damp (not wet) surface.
- > If applying directly onto a porous surface, it is important to initially soak the surface and allow ponded water to run off or evaporate prior to application of TamSeal 800.
- > If the receiving surface is rough, it is advisable to apply a 20 mm layer of regulating material such as TamCrete Topshot to maximise the quality and efficiency of the membrane application.
- > TamSeal 800 cannot be applied onto substrates with active water ingress.
- > If active water ingress is visible, TamSeal Geotextile Drainage Fleece should be installed to give a dry surface on which to apply the TamSeal 800. Where it is not practical to drain the water away the leak should be sealed using an appropriate product and methodology, please contact your local Normet representative for advice on suitable solutions.
- > When applying on to TamSeal Geotextile Drainage Fleece, no pre-dampening is required.



Secondary sprayed or cast concrete lining  
 TamSeal 800 – 1<sup>st</sup> coat orange, 2<sup>nd</sup> coat grey  
 Regulating layer such as TamCrete TopShot  
 Primary sprayed concrete lining

- > In order to enhance the quality control process, TamSeal 800 can be applied in two layers. Apply the 1<sup>st</sup> coat using the orange version of the TamSeal 800, followed by a 2<sup>nd</sup> coat of the grey version TamSeal 800.

### Application Equipment

- > Tamseal 800 can be applied by brush or hand spray equipment. For larger applications, robotic spraying equipment can be used. For further technical information, please contact your local Normet representative.

## PACKAGING

TamSeal 800 is supplied in 15 kg bag. Packaging size may vary subject to local regulations and requirements.

The standard colour is light grey. The orange version is available upon request. The orange version can enhance quality control measures in a two coat process.



## STORAGE

TamSeal 800 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 one year can be expected.

## HEALTH & SAFETY

TamSeal 800 should only be used as directed. We always recommend that the Safety data sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety data sheet is available upon request from your local Normet representative.

