

**YEARS  
AHEAD**

**permare<sup>®</sup> ep and epw**

**WRAS**  
APPROVED  
PRODUCT

**HIGH PERFORMANCE TANKING & LINING SYSTEMS**

**Applications in Saudi Arabia and the Middle East**

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**Permare<sup>®</sup>** is a range of two component, epoxy modified polysulphide membranes that combine the best features of both resins to produce a seamless, liquid applied coating with outstanding physical properties.

Quickly and easily applied, **Permare<sup>®</sup>** cures to form a durable, flexible, abrasion and chemical resistant coating.

Suitable for above or below ground applications the systems can be applied in a wide range of temperatures and have been successfully tested to ASTM D3111-88 for its low temperature flexibility and BS6920 Part III for applications at 55 °C.



#### Features

The **Permare<sup>®</sup>** range of membranes offer the following features:

- Liquid applied and thixotropic, easily coping with difficult profiles and no requirement for complex detailing
- Seamless, with no vulnerable joints. Also allows easy cleaning
- Strong bond to a variety of substrates including concrete & steel, preventing tracking beneath the membrane from any damaged areas that can cause the delamination of other systems.
- Durable, providing a far longer service life than traditional sheet membranes
- Enhanced flexibility over epoxies while retaining impact resistance and durability
- Low viscosity polysulphide resins allow easy application without the need for the addition of solvents or thinners
- Excellent chemical resistance including to desalinated water

continued overleaf ➤

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**Permare®** has a very successful track record of use on a variety of substrates in a wide range of applications throughout the world.

### The grades

**Permare® EPW** is certificated for use with potable water and is principally used for applications in the water industry. Applications include the lining of reservoirs and other water storing structures.

**Permare® EP** is used extensively on structures exposed to or storing aggressive mediums such as fuel, oil, hydrocarbons and other chemicals.



### Successful track record

The high level of in-situ service performance provided by these systems has ensured that the **Permare®** range has a successful track record in excess of eight years in Saudi Arabia. The Riyadh Water & Sewage Authority has used the **Permare® EP** grade to protect its structures in a variety of harsh environments including chemical tanks, sewage treatment plants, screw pumps, aeration tanks, enclosed sewage channels, suction tankers and the lining of sewage man holes.

**Permare® EPW**, has been used on various water tanks / reservoirs at Buraida, Medinah, Jeddah and Riyadh including the High Point Reservoir, the world's largest underground reservoir with a capacity of 3 Million m<sup>3</sup> where 1.2 Million m<sup>2</sup> of Permare was applied.

### Conclusion

The **Permare®** range has been formulated to retain the advantages polysulphide and epoxy resins offer while overcoming their limitations to provide a high performance coating that is easily applied, durable and flexible. They offer a cost effective, long lasting economical solution to the structural waterproofing problems experienced in the aggressive climatic and operating conditions experienced within Saudi Arabia. ■



products in action

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