

Wave Tank and Bund Lining

Using Impermax QC Waterproofing System

Technical situation

GLS Coatings were contacted by Manchester University to apply a solvent free, fast-setting coating system to waterproof and line their in-house Wave Tank and Bund.

Solution

Based on Manchester University's requirements, it was decided to specify Impermax QC to line the water tank and bund.

Impermax QC is a single component, system that is cold applied, and creates a high performance liquid polyurethane membrane.

Once cured, it forms a seamless waterproof membrane which does not require any additional surface coatings.

1. Preparation of substrates and primer specification confirmation.

The surface was first cleaned to remove any loose debris, and was then jet washed to remove any imbedded algae.

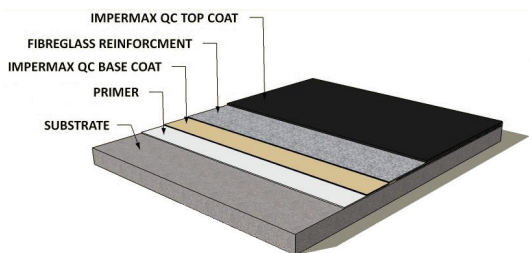
2. Priming of substrates to which the membrane was applied.

Localised repairs were made to areas of concern prior to the application of the primer system. This included the treatment of day joint cracks and flashings

3. GLS Coatings then applied the polyurea membrane over fibreglass matting.

Impermax QC was applied by brush and rollers to the manufacturer's specified coverage rate. The base coat, was embedded with 225gsm fibreglass matting.

4. All data was recorded digitally on iPad Reporting Forms.



Impermax QC polyurea membrane meets the following requirements:

| Test Name | Test Methods | Value |
|------------------------|--------------|-----------------|
| Hardness Shore | D A | STM D2240 6I |
| Elongation % | ASTM | D412 25-30 |
| Tensile Strength, psi | ASTM | D412 2230- 2350 |
| Tear Strength, lbs/in | ASTM | D624 550-600 T |
| aber Abrasion, mg/1000 | cycle ASTM | D4060 68 |