

PUDLO concrete expertise: concrete advantages over membrane

PUDLO has pioneered the advantages of membrane-free waterproofing for more than a century.

Membranes have been regarded as the 'traditional' way of protecting concrete in buildings from leaks and water damage. However they have limitations;

- **Expensive and vulnerable to the risk of mechanical damage during the construction process.**
- **Time consuming and labour intensive to install, particularly for temporary works and penetrations.**
- **They require complex detailing, jointing and demand the highest standard of workmanship and skill in order to be successful.**
- **They prevent the natural autogenous healing (now known to be a mechanical self sealing process) and encourage drying shrinkage cracks. (IStructE 2004 Guide to Deep Basement Construction)**
- **Leaks caused by defects in external membranes are practically impossible to locate and repair, since the water invariably enters the structure through cracks or other vulnerable points, such as movement joints, at some distance from external defect. Therefore it is difficult if not impossible to have good leak-source identification.**

Using PUDLO modified waterproof concrete has the following advantages:

- **A single point of responsibility for Waterproofing, in line with the recommendations of "ICE Reducing the Risk of Leaking Substructure – A Clients Guide 2009".**
- **Reduced design costs since the concrete is the membrane and will be poured anyway.**
- **Structurally integral waterproof concrete is maintenance-free, cannot be damaged and will last for the lifetime of the structure.**
- **Project programme savings as a result of the removal of a complete sub-contract.**
- **PUDLO offers a more sustainable solution achieving a lower project carbon footprint.**
- **Full service solution providing guaranteed protection on the completed works.**
- **In the unlikely event of a leak the source of the problem is readily identifiable and easily fixed.**