

www.fosroc.com



constructive solutions

Fosroc offers a full range of construction solutions, helping to protect structures throughout the world. Please refer to our other brochures, which include:



Details of your local Fosroc office can be found at
www.fosroc.com

Important Note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

Watertight construction





Fosroc® watertight construction



Fosroc total waterproofing

Basements, swimming pools, lift pits and many other structures require effective waterproofing.

In practice this is achieved by inserting a vapour barrier, such as one of FOSROC's Proofex range of impermeable membranes, during construction and/or by changing the composition of standard concrete to maximise water resistance.

FOSROC and CEMEX, two of the leading exponents of moisture barrier construction technology, have combined their expertise and experience to provide the best solution in every application. This includes Type A (use of waterproofing membrane) Type B (structural use of concrete) and Type C (drained cavity) construction projects.

CEMEX Permatite, available exclusively from CEMEX UK, is a concrete designed to meet the requirements of waterproofing as defined in BS8102 (all grades). The use of specifically designed admixtures provides CEMEX Permatite with structurally integral waterproofing characteristics, at the same time enabling concrete to be poured and compacted with ease.

CEMEX Permatite together with FOSROC's range of Proofex and Supercast waterproofing products ensures the formation of watertight joints, providing a fully integrated, total waterproofing solution.

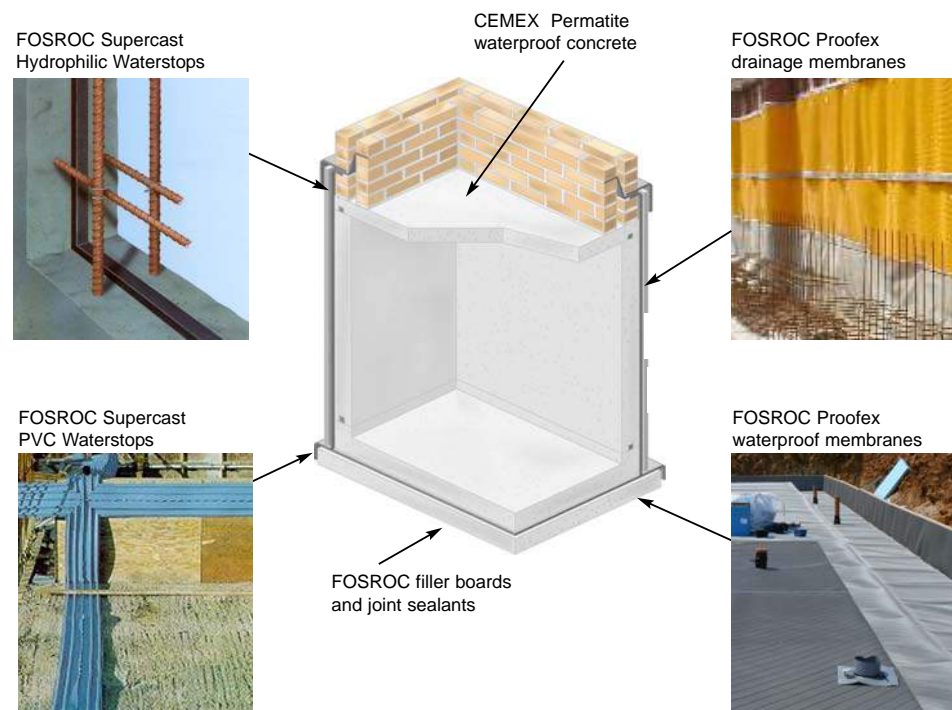
Design criteria

Grade	Typical structure	Performance requirements	Fosroc Solutions
1	Basic utility Plant rooms (excluding electrical equipment) Workshops Car parking - Underground	Some seepage and damp areas tolerable dependant upon intended use i.e. for piling and embedded retaining walls refer to appropriate industry standard	CEMEX Permatite waterproof concrete Supercast PVC waterstops -Rearguard & Hydrofoil Supercast Hydrophilic waterstops - SW range Supercast Synkoflex
2	Basic utility Storage areas Plant rooms & workshops requiring a drier environment than Grade 1	Damp areas tolerable and some ventilation may be required. No water penetration is acceptable	CEMEX Permatite waterproof concrete Supercast PVC waterstops -Rearguard & Hydrofoil Supercast Hydrophilic waterstops - SW range Supercast Synkoflex
3	Ventilated residential and commercial areas - Offices and restaurants etc Leisure centres	Ventilation, dehumidification or air conditioning is necessary and appropriate to the intended use. No water or vapour penetration is acceptable*	CEMEX Permatite waterproof concrete Supercast PVC waterstops -Rearguard & Hydrofoil Supercast Hydrophilic waterstops - SW range Supercast Synkoflex Proofex Engage or Proofex Hydromat - at deep basement level as a combined system with concrete type B

Also please refer to :-
BS 8007: 1987 Code of practice for design of concrete structures for retaining aqueous liquids.
EN 1992-3 :2006 Eurocode 2 - Design of concrete structures. Liquid retaining and containing structures which give guidance on the design of liquid retaining structures.

* Degree of vapour protection is dependent on concrete thickness.

Typical waterproof construction detail



Fosroc can provide the specialist help through our dedicated Waterproofing Advice Centres on 0870 428 0860. Our experienced CAD detailing centre can deal with standard and non-standard technical drawings, while our Specification Service offers direct assistance with specifications for individual projects, providing written Fosroc specifications in NBS format.

CEMEX concrete is independently certified by the Quality Scheme for Readymixed Concrete for product conformity and compliance to BS EN ISO 9001 ensuring the highest quality concrete at all times.



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