

Waterproofing of new Concrete Utilising Xypex C-Series Admix

General

Xypex C-Series Admix will not adversely affect the strength, slump, air entrainment or workability of concrete. Therefore using Xypex C-Series Admix in concrete as a waterproofing system requires no more than good concrete practice including, batching, placement, compacting and curing in line with the relevant British standards.

All concrete containing Xypex C-Series Admix should be designed to the relevant standards and have a crack width no greater than the self-healing abilities of the Admix.

Concrete Batching

SMR Projects Ltd liaise with the concrete supplier regarding the specific design mix for Xypex concrete and specify what dosage of Xypex C-Series Admix into the concrete is correct, meaning concrete containing Xypex arrives on site ready to pour. Correct handling and storage of Xypex products is fully explained in the appropriate Safety Data Sheets.

Base concrete mix design(s) should be agreed at design stage. Technical design data is to be agreed with SMR Projects Ltd before commencement of any batching or pouring of concrete containing Xypex C-Series Admix. Under no circumstances should the agreed mix design be deviated from without prior agreement with SMR Projects Ltd and no less than 5 working days prior to the concrete pour taking place.

As the concrete containing Xypex C-Series Admix is delivered to site ready to use, no special consideration in the handling or placement of concrete containing Xypex C-Series Admix is necessary. Placement, compaction, and curing must be undertaken in accordance with the relevant British Standards.

Where concrete pumps are used they should be pre grouted in the normal way but provision must be made for the grout to be discharged outside the formwork to ensure only concrete with Xypex C-Series Admix is placed in the formwork.

Concrete formwork must be left in place for 24 hours and once struck proper curing of the concrete should be carried out in accordance with the relevant British Standards.

Construction Joints

Construction joints should be placed in accordance with the specified details supplied by SMR Projects Ltd for that specific project. No joints will be warranted by SMR Projects Ltd unless they are inspected and signed off by Xypex Field Services personnel prior to concrete placement.

NB: Xypex does not remove the requirement for isolation or movement joints if required by design or are specified by the engineer.

Good Concrete Practice

Placement, compaction, thermal protection, concrete curing and concrete design must be carried out in accordance with the relevant British Standards.

Slump of Concrete

Water cement ratios for the mix design are set prior to commencement of works. Specific slumps are set within existing standards and should be agreed with SMR Projects Ltd prior to commencement of works. **UNDER NO CIRCUMSTANCES SHOULD WATER BE ADDED ON SITE.**

Reporting Defect in Concrete

In the event that remedial works are required as a result of contractor error (e.g. cracking outside specification, honeycombing etc.) training and supervision in the repairs of concrete containing Xypex C-Series Admix will be given to site operatives by an approved Xypex Fields Service Technician. The Xypex Fields Service Technician reserves the right to charge for this service. The approved Xypex Fields Service Technician also reserves the right to take on such work to ensure the waterproofing status of concrete containing Xypex is obtained. Any charges for remedial work to be undertaken by the approved Xypex contractor will be agreed with the groundwork or main contractor before such work takes place.

Curing and Thermal Protection

To reduce cracking risk it is good concrete practice to prevent the loss of water for the first 72 hours following placement. Your concrete waterproofed with Xypex C-Series Admix is also your waterproofing membrane and therefore proper curing must take place. For slabs, curing should take place as soon as the concrete can take a person's weight without marking. In the case of power float finishes, curing should not be delayed. Walls should be covered, kept damp and not allowed to dry out for a minimum of 72 hours.

Protection from Frost

Xypex materials should be protected from frost. Xypex Patch'n Plug and Concentrate must not be placed in temperatures lower than 4°C. If temperatures lower than 4°C are expected then Xypex materials must not be placed in construction joints. At no time should Xypex materials be allowed to get below 0°C. Concrete containing Xypex C-Series Admix must be protected from frost for a minimum of 72 hours post pour.

Remedial Work

It is the responsibility of the contractor's site supervisor to ensure all remedial work takes place to the required standards. Should any remedial work be necessary SMR Projects Ltd will supply the relevant Method Statements for that work. This will be carried out as soon as practical.

Other Practical and Health & Safety Considerations

Precautions applicable to any subsequent drilling, cutting or other operation likely to cause dust are to be treated as with normal concrete.

Where fixings are made into concrete with Xypex C-Series Admix by drilling, the remaining thickness of concrete with Xypex C-Series Admix should not be less than 150mm except where penetrations occur. All penetrations and anchoring into concrete containing Xypex C-Series Admix should be agreed with SMR Projects Ltd and the structural engineer.

The Construction (Design & Management) Regulation 1994

In terms of Health & Safety in construction, the handling and placing of concrete containing Xypex C-Series Admix is no different from standard concrete. All relevant PPE must be worn whilst working with concrete containing Xypex C-Series Admix.

Safety

Apply the usual industrial hygiene. Important information about work and environmental security can be found in the Xypex C-Series Admix MSDS.



METHOD STATEMENT

A copy of all relevant MSDS are available on request at info@smrxypex.co.uk

General Information

These instructions for use are for general guidance purposes only. SMR Projects Ltd do not make any warranty as to the merchantability or fitness for a particular purpose. The user shall determine the suitability of the product for its intended use and assume all risks and liability in connection therewith. This 'Method Statement' does not constitute as SMR Projects Ltd giving advice on a specific project or specification. This responsibility, and all risks and liability in connection therewith, remain with the user (or whoever is given such responsibility for the project in question).

For further detailed information relating to the use of this product, the user must refer to the relevant technical data sheet.

This document has been produced by SMR Projects Ltd and is subject to the standard terms and conditions of the Company, a copy of which are available upon request.