

POZZOLITH[®]CRP4+

High performance retarding plasticiser for concrete

Description

POZZOLITH[®]CRP4+ is a high performance plasticising retarder, beneficial in maintaining workability especially in high ambient temperatures.

Primary uses

- Of particular value for readymixed concrete where high workability retention and retardation are of prime importance.
- Hot weather concreting of all types.
- Reduction in permeability, reducing effect of groundwater salts on concrete and steel.
- To improve cohesion, workability and compactability in concretes using poorly graded/shaped fine aggregates.

Advantages

- Considerably improves the cohesion of concrete, reducing segregation and bleed water.
- Of particular use where fine aggregates of poor grading and particle shape are evident.
- Reduces placing problems in hot weather by improved workability and workability retention in conjunction with extended setting times.
- Improved surface finish.
- Improved trowellability.
- Reduces honeycombing / cold joint effects.

Improves pumpability of concrete.

Reduces effects of various modes of attack on concrete and embedded steel by considerable reduction in permeability.

Compatibility

POZZOLITH[®]CRP4+ can be used with all types of Portland cement including Sulphate Resisting. For

use with other special cements, contact BASF Construction Chemicals' Technical Services Department.

POZZOLITH[®]CRP4+ should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing POZZOLITH[®]CRP4+, they must be dispensed separately.

Typical properties

Properties listed are for guidance and are not a guarantee of performance

Colour:	Dark brown/black liquid
Specific gravity:	1.190 @ 25°C
Air entrainment:	0 - 1% depending on dosage rate
Chloride content:	Nil to BS 5075: 1982
Nitrate content:	Nil
Freezing point:	0°C. Can be reconstituted if stirred after thawing.
Flashpoint:	None

Standards

ASTM C-494: Types A
BS 5075: Part 1

Dosage

Trials should be conducted to determine the optimum addition rates of POZZOLITH[®]CRP4+, depending on mix design proposed and mix performance requirements. As a general guide to these trials, a dosage range of 200ml to 800ml per 100kg cement is recommended as a starting point. Depending on the desired properties, a dosage of up to 1000ml per 100kg of cement can be used.

Effects of over dosage

A severe over-dosage of POZZOLITH[®]CRP4+ will result in the following:

- Retardation of initial and final set.
- Slight increase in air entrainment.
- Increase in workability.

Providing it is properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete. The retarding effects of very high dosages will be exaggerated with SR cement.

Action

POZZOLITH®CRP4+ acts efficiently on cement particles by combining the effects of a powerful plasticising / deflocculating agent and retarder.

Directions for use

Optimum performance is achieved when the admixture is added to the mixing water. Never add POZZOLITH®CRP4+ to the dry cement. No extension to normal mixing time is necessary. **Dosage**

Trials should be conducted to determine the optimum addition rates of POZZOLITH®CRP4+, depending on mix design proposed and mix performance requirements. As a general guide to these trials, a dosage range of 200ml to 560ml per 100kg cement is recommended as a starting point. Depending on the desired properties, a dosage of up to 1000ml per 100kg of cement can be used.

Dispensing

POZZOLITH®CRP4+ should be dispensed through a proprietary dispenser, such as is available from BASF Construction Chemicals

Packaging

POZZOLITH®CRP4+ is available in bulk or in 200 litre drums.

Storage

Store under cover, out of direct sunlight and protect from extremes of temperatures.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult BASF Construction Chemicals SA's Technical Services Department.

Safety precautions

POZZOLITH®CRP4+ is not a fire or health hazard. Spillages should be washed down immediately with cold water. For further information refer to the material safety data sheet.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF Construction Chemicals SA representative.

Quality and care

All products originating from BASF Construction Chemicals SA, are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001/2000.

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

As all BASF's technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

BASF Construction Chemicals South Africa (Pty) Ltd

P.O. Box 420, Westonaria, 1780
11 Pullinger Street, Westonaria, 1779
Tel: +27 11 754 1343
Fax: +27 11 754 1105

852 Sixteenth Road, Midrand
PO Box 2801, Halfway House, 1685
Tel: +27 11 203 2405

Website : basfcc.co.za

