

# MasterPozzolith<sup>®</sup> CRP4

(formerly known as Pozzolith CRP4)

High performance retarding plasticizer for concrete

## DESCRIPTION

**MasterPozzolith CRP4** is a high performance plasticizing retarder, beneficial in maintaining workability especially at high ambient temperatures.

## RECOMMENDED USES

- Particular value for ready-mix concrete where high workability retention and retardation are of prime importance
- Hot weather concreting
- Reduction in permeability, reducing effect of groundwater salts on concrete and steel.
- For improving cohesion capability, workability and compaction in concrete using poorly graded/ shaped fine aggregates.

## FEATURES AND BENEFITS

- 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 trowel ability.
- Reduces honeycombing / cold joint effects. Improves pump ability of concrete.
- Reduces effects of various modes of attack on concrete and embedded steel by considerable reduction in permeability.

## PERFORMANCE TEST DATA

Aspect	: Dark brown free flowing liquid
Relative Density	: 1.18±0.02 at 25° C
pH	: ≥6
Chloride ion content	: <0.2%

## TEST CERTIFICATION/APPROVALS

- ASTM C-494 Type B & D
- EN 934-2: T10
- IS 9103: 1999

## ESTIMATING DATA OR COVERAGE/YIELD

**MasterPozzolith CRP4** is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of **Master Pozzolith CRP4** to dry aggregate or cement is not recommended.

## DOSAGE

Field trials should be conducted to determine the optimum addition rates of **MasterPozzolith CRP4**. As a general guide to these trials, a dosage range of 200ml to 560ml per 100kg of cementitious material is recommended as a starting point. Depending on the desired properties, a dosage of up to 1000ml per 100kg of cementitious material can be used. Because of variations in concrete materials, job site conditions, and/or applications, dosages outside of the recommended range may be required. In such cases, contact your local BASF representative.

For additional information on **MasterPozzolith CRP4** admixture or on its use in developing concrete mixes with special performance characteristics, contact your local BASF representative.

### Effects of over dosage

A severe over-dosage of **MasterPozzolith CRP4** can result in the following:

- Long extension of initial and final set
- Increase in air entrainment
- Bleed/segregation of mix, quick loss of workability
- Increased plastic shrinkage

A slight overdose may not adversely affect the ultimate strength of the concrete and can achieve higher strengths than normal concrete, provided it is properly compacted and cured. Due allowance should be made for the effect of fluid concrete pressure on form work, and stripping times should be monitored. The retarding effects of very high dosages will be exaggerated with Sulphate Resistant cement.

In the event of over dosage, consult your local BASF representative immediately.



The Chemical Company

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## COMPATIBILITY

**MasterPozzolith CRP4** can be used with all types of Portland cement including Sulphate Resisting. For use with other special cements, please consult your local BASF representative. **MasterPozzolith CRP4** should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing **MasterPozzolith CRP4**, they must be dispensed separately.

**MasterPozzolith CRP4** is also compatible with slag and pozzolans such as fly ash and silica fume

## CORROSIVITY – NON CORROSIVE

**MasterPozzolith CRP4** admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, prestressed concrete or concrete placed on galvanized steel floor and roof systems. Neither calcium chloride nor any calcium chloride-based ingredients are used in the manufacture of this admixture. In all concrete application, **MasterPozzolith CRP4** admixture will conform to the most stringent or minimum chloride ion limits currently suggested by construction industry standards and practices

## WORKABILITY

**MasterPozzolith CRP4** ensures that concrete remains workable in excess of 3 hours at +25°C. Workability loss is dependent on temperature, and on the type of cement, the nature of aggregates, the method of transport and initial workability. It is strongly recommended that concrete should be

properly cured particularly in hot, windy and dry climates.

## PACKAGING

**MasterPozzolith CRP4** is supplied in 20kgs, 245 kg drums or in bulk on request.

## STORAGE /SHELF LIFE

**MasterPozzolith CRP4** must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult your local BASF representative.

## PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapor until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

TDS Ref no.: **MasterPozzolith CRP4 0613 v2**

## STATEMENT OF

### RESPONSIBILITY (Disclaimer)

The technical information and application advice given in this BASF Construction Chemicals publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.