

MasterPozzolith® 55

Plasticizing and water reducing admixture with set retarding properties

DESCRIPTION

MasterPozzolith 55 is a powerful plasticiser which disperses and deflocculates cement particles while delaying the hydration process, thereby retarding the initial and final set. It can be used to improve workability without the addition of extra water, or to allow reductions in the free water content. Due to improved dispersion of the cement particles the process of hydration proceeds under the optimum conditions, leading to improved strength characteristics with or without reduction in free water. Compliant to standard EN 934 – 2.

RECOMMENDED USES

- High strength, high cement content, low W/C ratio mixes.
- Hot weather concrete where control of initial and final set is important.
- White cement concrete
- Mass concrete eg RCC for Dam construction
- Slipformed concrete, high strength mixes, to control set of concrete particularly in high ambient temperatures

FEATURES AND BENEFITS

- Increases compressive, tensile and flexural strength of concrete.
- Increases density of concrete reducing permeability and thus increasing durability.
- Allows a reduction in free water in the region of 8-12%.
- Highly effective in high cement content low water cement ratio mixes where its use enables concrete to be made more workable without loss in strength, density and durability.
- Enables controlled extension of initial and final set in numerous applications, such as structural in-situ concrete, RCC mass pours, piling concrete etc
- The retarding action allows continuous concrete pours to be made, thus reducing the number of construction joints needed.
- The strength gain of concrete containing **MasterPozzolith 55** is enhanced. After retardation of initial and final set, a more rapid hardening of the concrete occurs, and the effect on stripping time is negligible.

APPLICATION

Dispensing

Directions for use **MasterPozzolith 55** should be added to the concrete mix during the mixing cycle, at the same time as the water, or the aggregates. Never add **MasterPozzolith 55** to the dry cement. No extension to normal mixing time is necessary.

Dispenser

MasterPozzolith 55 should be dispensed through a proprietary dispenser.

DOSAGE

Field trials should be conducted to determine the optimum addition rates of **MasterPozzolith 55**. As a guide to these trials, a dosage range of 160 to 280ml per 100kg cement is recommended as a starting point. Dosages outside this range can be used where improved workability, increased water reduction and / or further set retardation are required.

Effects of over dosage. A severe over dosage of **MasterPozzolith 55** will result in:

- Increased retardation of initial and final set.
- Increase in workability.

Providing concrete is properly cured the ultimate strength of the concrete will not be adversely effected and will generally be higher than for normal concrete.

Care should be taken to allow for the effect on formwork pressures and on stripping times.

COMPATABILITY

MasterPozzolith 55 can be used with all types of Portland cement including sulphate resisting (Type V). For use with other special cements, contact your local BASF Technical Sales Representative.

MasterPozzolith 55 should not be premixed with other admixtures. If other admixtures are to be used in concrete containing **MasterPozzolith 55**, they must be dispensed separately. If in doubt, consult your local BASF Technical Sales Representative.



The Chemical Company

MasterPozzolith® 55

PACKAGING

MasterPozzolith 55 is available in 1000 litre pallecons and bulk delivery.

STORAGE / SHELF LIFE

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight. Protect from temperatures below: 5 °C. The packed product is destroyed at low temperatures or by frost. Protect from temperatures above: 45 °C. The packed product will be damaged by high temperatures.

MasterPozzolith 55 has a shelf life of 12 months.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Material Safety Data Sheet (MSDS) from our office or our website.

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF 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.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.

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BASF Chemicals & Polymers Pakistan (Pvt) Ltd.
Construction Chemicals Division
46-A, Block-6, P.E.C.H.S.,
Shahrah-e-Faisal,
Karachi-75400

email: mohsin.zia@basf.com

Karachi
Tel: 021 111 550 550

Lahore
Tel: 042 111 550 550

Islamabad
Tel: 051 4446106-08

Website: www.master-builders-solutions.basf.pk