



The Chemical Company

# POZZOLITH® 400Ri

Polymer admixture for improving concrete

## DESCRIPTION

**POZZOLITH 400Ri** is a ready-to-use liquid admixture for making better, more uniform and more predictable high quality concrete. It retards the setting time to facilitate placing and finishing. Concrete meeting architectural, structural and construction requirements is obtained more dependably and economically with **POZZOLITH 400Ri**. **POZZOLITH 400Ri** meets and exceeds AS1478.1-2000 type WRRre admixture requirements.

## RECOMMENDED FOR

**POZZOLITH 400Ri** admixture is recommended for use in all types of concrete where retardation of set and improved performance, particularly improved pumpability are required or desired.

**POZZOLITH 400Ri** admixture improves pumped concrete, shotcrete (wet mix) and conventionally placed concrete; it also improves plain, reinforced, precast, prestressed, lightweight or standard concrete. It can be used in white or coloured concrete. **POZZOLITH 400Ri** can be used with air-entraining agents approved under AS 1478 Specifications when air-entrained concrete is specified or desired. While **POZZOLITH 400Ri** entrains negligible air, it improves the efficiency of most air-entraining admixtures and will generally result in the need for less air-entraining admixture.

BASF's approved air-entraining admixture Micro-Air is recommended for use with **POZZOLITH 400Ri** admixture when air-entrained concrete is specified or desired.

When used in conjunction with another admixture each admixture must be dispensed separately into the mix.

## FEATURES AND BENEFITS

**POZZOLITH 400Ri** admixture aids in the production of concrete with these special qualities.

- mild to extended retardation - depending on dosage
- greater pumpability
- superior finishing characteristics for slabwork and off-form surfaces
- reduced water content for a given consistency
- increased strength - compressive, flexural and bond of concrete to steel
- greater economy in a mix designed for a given strength, slump and air content
- minimum cracking
- easier placement - economy in placement
- greater durability
- reduced segregation, particularly in lean mixes and high slump concrete
- slipformed concrete

## QUANTITY TO USE

**POZZOLITH 400Ri** is used at the rate of 250 to 400ml per 100kg cement. Similar dose rates may be used with blended cements.

## RATE OF HARDENING

The temperature of the concrete mix and the ambient temperature (forms, earth, reinforcement, air, etc.) affect the rate of hardening of the concrete. At higher temperatures concrete hardens more rapidly and may impose problems with placing and finishing of concrete. By varying the dosage of **POZZOLITH 400Ri**, concrete with a more desirable rate of hardening characteristic can be obtained.

Since setting time is also influenced by the chemical and physical composition of the basic ingredients of the concrete, trial mixes should be made with the actual materials approximating job conditions to determine the dosage required for a given degree of retardation.

## COMPRESSIVE STRENGTH

In comparison to plain concrete, a mix containing **POZZOLITH 400Ri** develops higher early and ultimate strengths, exceeding the strength requirements of AS 1478.1-2000.

## PACKAGING

**POZZOLITH 400Ri** is supplied in 205 litre sealed drums and bulk delivery.

For additional information on **POZZOLITH 400Ri** and its use in developing a concrete mix with special performance characteristics, contact your local BASF Construction Chemicals Technical Sales Representative.

## 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.



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## 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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