



The Chemical Company

# POZZOLITH<sup>®</sup> 81R

Admixture for Improving Concrete

## DESCRIPTION

**POZZOLITH 81R** is a ready-to-use liquid admixture for making better, more uniform concrete. It reduces the quantity of mixing water required to produce concrete of a given consistency while retarding the setting time to facilitate placing and finishing.

## FIELDS OF APPLICATION

**POZZOLITH 81R** admixture is recommended for use in all types of concrete where moderate to extended retardation of set and improved performance are required or desired.

## FEATURES AND BENEFITS

**POZZOLITH 81R** admixture aids in the production of concrete with these special prop:

- Mild to extended retardation – depending on dosage
- Reduced water content for a given consistency
- Improved cohesiveness and workability
- Better finishing characteristics
- Plus all the basic benefits of a normal plasticizer
- Increase strength – compressive, flexural and bond of concrete to steel
- Greater economy in a mix for a given strength slump and air content
- Reduced cracking and permeability improved watertightness

## TYPICAL PERFORMANCE DATA

### 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 81R**, concrete with a more desirable rate of hardening characteristics can be obtained.

### Compressive strength

In comparison to plain concrete, a mix containing **POZZOLITH 81R** develops higher early and ultimate strengths.

## APPLICATION

**POZZOLITH 81R** is a ready-to-use liquid product. It is introduced into the mixer at the same time as the mixing water.

## DOSAGE

**POZZOLITH 81R** is normally used at the rate of 300–600ml per 100kg of cement. Other dosages may also be used depending on the specific working conditions. Consult your local BASF Construction Chemicals field representative for assistance in determining the rate of dosage.

## PACKAGING

**POZZOLITH 81R** is available in 205L drums or bulk delivery.

## SHELF LIFE

If **POZZOLITH 81R** is frozen, thaw at 2°C or above and completely reconstitute by mild mechanical agitation. For additional information on **POZZOLITH 81R** or on its use in developing a concrete mix with special performance characteristics, contact your local BASF Construction Chemicals field representative.

## PRECAUTIONS

**Health** : **POZZOLITH 81R** does not contain any hazardous substances requiring labelling.

It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc.

For detailed Health, Safety and Environmental recommendations, please consult and follow all instructions in the product Material Safety Data Sheet.

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## STATEMENT OF RESPONSIBILITY

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.

## NOTE

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

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