

# MasterPozzolith<sup>®</sup> 405

## Set retarding and water reducing concrete admixture

### MATERIAL DESCRIPTION

**MasterPozzolith<sup>®</sup> 405** is a ready-to-use, liquid admixture for producing quality concrete with consistent performance.

It reduces the quantity of mixing water required to produce concrete of a given workability with greater economy for a given strength. The retarding nature of the admixture also aids placing and finishing of concrete.

**MasterPozzolith<sup>®</sup> 405** meets ASTM C494/C494M – Type B (Retarding) and Type D (water-reducing and retarding) admixtures. It does not contain chloride-based ingredients and will not initiate or promote corrosion of reinforcing steel in concrete.

### FIELDS OF APPLICATION

**MasterPozzolith<sup>®</sup> 405** admixture is recommended for use in all types of concrete where moderate to extended retardation of set and improved performance are desired. The admixture improves workability of pumped concrete, shotcrete (wet mix) and conventionally placed concrete.

**MasterPozzolith<sup>®</sup> 405** can be used with high content of manufactured sand and with air entraining admixtures approved under ASTM. When used in conjunction with another admixture, each admixture must be dispensed separately into the mix. By itself, **MasterPozzolith<sup>®</sup> 405** admixture does not entrain air.

Concrete produced with **MasterPozzolith<sup>®</sup> 405** admixture will have appreciable strength development after initial set occurs. If retardation is within the normal ASTM C 494/C494M – types B and D specifications, **MasterPozzolith<sup>®</sup> 405** admixture will develop higher early (24 hours) and higher ultimate strengths than plain concrete when used within the recommended dosage range and under normal, comparable curing conditions.

### FEATURES AND BENEFITS

**MasterPozzolith<sup>®</sup> 402R** used at optimum dosage enhances the performance of concrete providing the following special qualities:

- Improved workability
- Reduced segregation
- Superior finishing characteristic
- Controlled retardation depending on the rate of addi-

tion

- Provides flexibility in scheduling of placing and finishing
- Offset effects of too early hardening during extended delays between mixing and placing.
- Helps eliminate cold joints
- Lower peak temperature and/or rate of temperature rise in mass concrete –reduces thermal cracking

### DOSAGE

**Master Pozzolith<sup>®</sup> 405** admixture is recommended for use at the rate of 200 - 400 ml per 100 kg of cementitious content for most concrete mixes using typical concrete ingredients. Because of variations in job conditions and concrete materials, dosage rates other than recommended amounts may be required. In such cases, contact your local Master Builders Solutions representatives.

### PACKAGING

**MasterPozzolith<sup>®</sup> 405** is available in 205L drum or in bulk delivery.

### SHELF LIFE

**MasterPozzolith<sup>®</sup> 405** admixture has a minimum shelf life of 12 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your Master Builders Solutions representative regarding suitability for use and dosage recommendations if the shelf life of **MasterPozzolith<sup>®</sup> 405** admixture has been exceeded.

### PRECAUTIONS

**Health: MasterPozzolith<sup>®</sup> 405** 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 a instructions in the product Material Safety Data Sheet.

# MasterPozzolith<sup>®</sup> 405

---

Set retarding and water reducing concrete admixture

® = registered trademark of a MBCC Group member in many countries of the world

**MID#MasterPozzolith<sup>®</sup> 405 - 04.2021**

---

**STATEMENT OF RESPONSIBILITY**

The technical information and application advice given in this Master Builders Solutions 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 Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

---

**PT Master Builders Solutions Indonesia**

Jl. Jababeka V Blok I No 1, Kawasan Industrial Estate  
Jababeka 1, Pasirgombong, West Cikarang,  
Bekasi, West Java 17530  
[www.master-builders-solutions.com/en-id](http://www.master-builders-solutions.com/en-id)