

# POZZOLITH® 420R

(Replaces Atroretard)

## Setting retarder for cement bound building materials

### Description

POZZOLITH 420R provides retardation in initial and final setting time in all cementitious materials.

### Typical applications

When long distance transportation of concrete or extend of setting time is desirable such as ; Slip form-work , or hot weather concreting due to prevent fast setting or hardening . POZZOLITH 420 R should be added to concrete separately, it should not be premixed with other admixtures .

### Packaging

POZZOLITH 420R is available in bulk or 220 kg. drums.

### Compatibility

POZZOLITH 420R can be used with all types of Portland cement including sulphate resisting (Type V).

POZZOLITH 420R should not be premixed with other admixtures. If other admixtures are to be used in concrete containing POZZOLITH 420R, they must be dispensed separately. If in doubt, consult Degussa Iran Technical Dept.

### Properties\*

Properties listed are only for guidance and are not a guarantee of performance.

|                  |   |
|------------------|---|
| Appearance       | Colorless liquid                                    |
| Specific gravity | 1.06 – 1.08 at 25°C                                 |
| Mixable          | With water in any ratio                             |
| Chloride content | Nil to BS 5075 Part 1                               |
| PH               | 9 - 10  |
| Freezing point   | 0°C. Can be reconstituted if stirred after thawing. |

### Dosage

Table below shows recommended dosage of POZZOLITH 420R in percentage of cement for different setting time delay in various temperatures.

| Retarding (Hrs)<br>Concrete Temp. °C | 3    | 5    | 7    | 9    | 12   | 15   | 18   | 21   |
|--------------------------------------|------|------|------|------|------|------|------|------|
| + 10                                 | ---- | ---- | 0.20 | 0.30 | 0.50 | 0.70 | 0.90 | 1.00 |
| + 15                                 | ---- | 0.10 | 0.30 | 0.40 | 0.60 | 0.80 | 1.10 | 1.50 |
| + 20                                 | 0.10 | 0.20 | 0.40 | 0.50 | 0.80 | 1.10 | 1.40 | 1.80 |
| + 25                                 | 0.20 | 0.30 | 0.50 | 0.60 | 1.00 | 1.50 | 2.00 | ---- |
| + 30                                 | 0.30 | 0.40 | 0.60 | 0.80 | 1.20 | 2.00 | ---- | ---- |
| + 40                                 | 0.50 | 1.30 | 2.00 | ---- | ---- | ---- | ---- | ---- |

### Storage

POZZOLITH 420R should be stored in origin drums and be protected from damages. In this situation it has a shelf life of one year.

### Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Degussa representative.

Degussa reserves the right to have the true cause of any difficulty determined by accepted test methods

### Quality

All products produced by Degussa certified manufacturing facilities, are produced to conform to systems designed to meet internationally recognised quality standards.

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