

Domomix[®] PR 375

Superplasticizer for concrete with set retarding effect

Description

Domomix PR 375 is a high performance superplasticizer (primary function) and retarding admixture (secondary function). It improves the workability of concrete mixes and at the same time extends the setting time of fresh concrete. The effect is achieved by its absorption into the surface of the cement particles in a concrete mix, giving a powerful deflocculating action. **Domomix PR 375** is formulated from carefully selected organic polymers and its set retarding effect can be modulated according to the ambient temperature.

Compliance

Domomix PR 375 complies to the requirements of the European norm **EN 934-2 T.11** (set retarding/ high range water reducing /super plasticizing admixtures).

CE **CE** **CE Approval EN 934-2 T. 11.1-T11.2**
[set retarding/ high range water
reducing /super plasticizing admixtures]
Certificate number **1922-CPR-0482**

Features/ advantages

- Optimum dispersion of the cement, hence a reduction in actual cement content can be permitted.
- Workability of concrete is improved even at low w/c ratio.
- Increase of early and final strength.
- Enhancement of density of concrete.
- Improvement in pumpability of concrete.
- Extends the period of time when concrete can be placed and compacted while retaining its workability

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Method of use

Domomix PR 375 should be added in concrete mixes during the mixing process at the same time with the mixing water or on-site before pouring. In Ready-Mix plants the product should ideally be introduced via an automatic dispenser.

Dosage

0.2-0.6 ltr/ 100 kg of cement content

for normal applications

0.8-1.2ltr/ 100 kg of cement content

for extended workability

The performance of the product is best assessed after preliminary tests on site using the actual concrete under consideration to determine the optimum dosage and effect on properties such as ultimate compressive strength, early rate of gain of strength and shrinkage when these are of consequence. As a guide to these trials, an addition rate of **0.2-0.6 ltr** per 100 kg of cement content is advisable. This rate of addition can give considerable water reduction in the concrete mix or alternatively act as an effective superplasticizer for about two hours.

To achieve an extension of workability of concrete under very hot climatic conditions, or where long transport times are involved, dosage may be increased **up to 1.2 ltr** per 100 kg of cement content. For assistance with trials it is recommended to consult the Technical Department.

Overdosing

Note that over-dosing of **Domomix PR 375** will generally produce a considerable increase in workability and in certain circumstances, a slight increase in air entrainment. Beware of overdosing in cold weather periods, as this will considerably prolong initial and final setting times. The effects of over-dosing will also be exaggerated when Sulphate Resisting Cement is used.

Typical Properties

Property	Result
Appearance	Dark brown aqueous solution
Specific gravity	Approx. 1.2 kg/m ³ at +20 °C
Freezing point	0 °C
Storage Life	12 months

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Compatibility

Domomix PR 375 can be used with all types of Portland Cement, including Sulphate Resisting Cement. For use with special cements it is recommended to consult the Technical Department. Also consult the technical department for compatibility with other admixtures/ additives.

Packaging

The product is supplied in bulk, IBCs of 1000 ltr, drums of 200 ltr and pails of 20 ltr.

Health & safety

Protect the skin and eyes from splashes. The use of gloves and safety goggles is advised. Please consult the Material safety data Sheet of the product for further assistance.

Storage

The product should be kept under cover, for 1 year in its original packaging at temperatures between +0 °C and +45 °C.

Technical Service

Domochemica provides a technical service for trials or on-site assistance. Please do not hesitate to contact us or our next local representative for assistance.

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