

POZZOLITH[®] 106N (formerly known as PORZITE ESP9)

Concrete admixture for optimised compressive and flexural strengths

Description

POZZOLITH[®]106N is a multi-component admixture for producing slightly air entrained, flowable concrete. The product is free of calcium chloride.

POZZOLITH[®]106N has a strong plasticising and dispersing effect which when used in properly designed concrete, produces a highly workable mix without segregation or bleeding. It can be used to produce a normal workability concrete at reduced water content.

The water demand of the concrete may be reduced by up to 12%, depending on the type of aggregates used. Concrete produced with POZZOLITH[®]106N will show an increase in ultimate compressive and flexural strengths. The bond between reinforcing steel and the concrete will similarly be improved.

At higher dosage rates POZZOLITH[®]106N will introduce mild set retardation allowing for extended working time. Where low slump concrete or low cement content concrete is used the addition of POZZOLITH[®]106N will significantly improve the plastic properties of the concrete.

Where bleeding is experienced in concrete, POZZOLITH[®]106N should be used to reduce the total water content of the concrete and to entrain air to reduce the capillary bleeding.

POZZOLITH[®]106N also reduces the permeability, increases the durability and helps to protect the concrete against freeze and thaw cycles.

Air Entrainment

The percentage of air entrained varies according to the type of aggregate being used and the plastic properties of the concrete.

Tests should be conducted to determine the optimum percentage of air to be entrained in the concrete.

Typical properties

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

Colour:	Dark brown/black liquid
Specific gravity	1.15 at 25°C
Air entrainment:	1 to 2% dependent on dosage
pH	10.5
Freezing::	-2°C . .

Standards

POZZOLITH[®]106N complies with performance requirements of ASTM C – 494 Type A & D

Dosage

The recommended dosage rate is 0,2 to 0,4 litres per 100 kilograms of cement depending on design requirements. Optimum dosage rates and early strength development characteristics should be established by site trials under controlled conditions.



The Chemical Company

POZZOLITH[®] 106N

Storage

Store under cover, out of direct sunlight and protect from extremes of temperatures.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult BASF Construction Chemicals SA's Technical Services Department.

Safety precautions

POZZOLITH[®]106N is not a fire or health hazard. Spillages should be washed down immediately with cold water. For further information refer to the material safety data sheet.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF Construction Chemicals SA representative.

Quality and care

All products originating from BASF Construction Chemicals SA, are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001/2000.

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

As all BASF's technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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