

Plastocrete®-N

Waterproofing concrete admixture

Product Description

Plastocrete®-N is a concrete admixture in liquid form that acts both as a highly efficient plasticiser and waterproofing agent.

Uses

Plastocrete®-N is recommended for use in structural and mass concrete, particularly water retaining structures such as:

- Reservoirs and dams
- Sewage works
- Canals
- Culvert tunnels

Characteristics / Advantages

Plastocrete®-N provides the following properties:

- Improved workability without increased water content
- Allows easier compaction leading to denser concrete and superior surface finish
- Increased strength and durability
- Reduced shrinkage
- Chloride free – does not attack reinforcement

Tests

Approval / Standards

Plastocrete®-N complies with ASTM C494-86 Types A and B and BS 5075: Part 1.

Product Data

Form

Appearance / Colour

Brown liquid

Packaging

20 ltr pails and 200 ltr drums

Storage

Storage Conditions / Shelf Life

2 years from the date of production when stored in original unopened packaging in a cool, dry place. Keep away from direct sunlight.

Technical Data

Chemical Base

Modified polymers



System Information

Typical Mix Design Results

Mix Design	
Cement, OPC (kg/m ³)	350
Sand, Zone 2 (kg/m ³)	840
Coarse aggregate (kg/m ³)	985
Water (kg/m ³)	175
Plastocrete [®] -N (ltr/m ³)	1.575
W/C	0.50
Results	
Slump (mm)	50
Compressive strength at 28 days, BS 1881:Part 108, 111 and 116 (N/mm ²)	35
Water absorption, BS 1881: Part 122 (%)	2.3

Application Details

Dosage

Plastocrete[®]-N is dosed at 400 - 450 ml per 100 kg cement.

For effective waterproofing, it is recommended that the minimum cement content is to be 330 kg per cubic meter concrete with water cement ratio of max. 0.50.

Plastocrete[®]-N is compatible with all types of Portland cement including Sulphate Resistant Cement (SRC)

Application Instructions

Dispensing

Plastocrete[®]-N liquid should be dispensed directly into the mixing water prior to its addition of other concrete components such as coarse aggregate, sand and cement. Where overdosing accidentally occurs, apart from retardation of the initial set, no detrimental effect will take place.

Preliminary trials are recommended if Plastocrete[®]-N is dispensed together with other admixtures.

Value Base

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (available upon request) containing physical, ecological, toxicological and other safety-related data.

Legal Note

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