

PRODUCT DATA SHEET

Sika® Plastocrete® N

WATERPROOFING CONCRETE ADMIXTURE

DESCRIPTION

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

USES

Sika® 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

Sika® 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

APPROVALS / STANDARDS

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

PRODUCT INFORMATION

Chemical Base	Modified polymers
Packaging	20 ltr pails and 200 ltr drums
Shelf Life	2 years from the date of production
Storage Conditions	Stored in original unopened packaging in a cool, dry place. Keep away from direct sunlight.
Appearance / Colour	Brown liquid

TECHNICAL INFORMATION

Concrete Mix Design

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
Sika® 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 INFORMATION

Dispensing

Sika® Plastocrete® N liquid should be dispensed directly into the mixing water prior to the addition of other concrete components such as coarse aggregates, 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.

BASIS OF PRODUCT DATA

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.

ECOLOGY, HEALTH AND SAFETY

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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