PRODUCT DATA SHEET

Sikament®-NN##

HIGH RANGE WATER REDUCING CONCRETE ADMIXTURE

DESCRIPTION

A highly effective dual action liquid super-plasticizer for the production of free flowing concrete or as a substantial water-reducing agent for promoting high early and ultimate strengths.

USES

Sikament® -NN## is used as a super plasticizer in the production of free flowing concrete such as:
- Slabs and foundations
- Walls, columns and piers
- Slender components with densely packed reinforcements
- Textured surface finishes
It is also used as water-reducing agent leading to high early strength concrete such as:
- Pre-cast concrete elements
- Pre-stressed concrete
- Bridges and cantilever structures
- Concrete where formwork must be removed quickly or early loading applied.

CHARACTERISTICS / ADVANTAGES

Sikament® -NN## provides the following properties:
- As a super plasticizer:
  - Workability is greatly improved.
  - Increased place ability in slender components with dense reinforcement.
  - Easy placing, less vibrating.
  - Normal set without retardation.
  - Significantly reduces the risk of segregation.
- As a water Reducer:
  - Up to 20% water reduction.
  - 16 hour compressive strengths increased by up to 100%.
  - 28 day strengths improved by 40%
  - Increased water tightness.

APPROVALS / STANDARDS

It complies with ASTM C494 Type F and B.S. 5075 Part 3 for super plasticizer.
PRODUCT INFORMATION

Chemical Base
Naphthalene Formaldehyde Sulphonate.

Packaging
5 kg and 20 kg pails
220 kg drums
Bulk Tanks packing available upon request

Appearance / Colour
Brown liquid

Shelf Life
12 months from date of production if stored properly in undamaged and unopened original sealed packing.

Storage Conditions
Store in dry conditions, protected from direct sunlight and frost.

Density
(at 20°C) 1.185 kg/l (ASTM C494)

APPLICATION INFORMATION

Recommended Dosage
• 0.8 – 3 % by weight of cement, depending on desired workability and strength.
• Sikament NN## is compatible with all types of Portland Cement including S.R.C.

Dispensing
• Sikament® -NN## can be added to the mixing water prior to its addition to the aggregates or as in most cases, it can be added directly to the freshly mixed concrete.
• When added directly to the freshly mixed concrete, the plasticizing effect is more pronounced.
• For Ready-mix concrete, Sikament® -NN## is added to the concrete immediately prior to discharge and after further mixing has taken place for three minutes.

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.

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.

ECOLOGY, HEALTH AND SAFETY

• Safety Precautions
Accidental splashes to the skin must be washed off with water and soap.
Accidental splashes to the eyes or mucous membrane must be rinsed with clean warm water. Seek medical attention.

• Ecology
Residues of material must be removed according to local regulations.
Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.

• Transport
Non-hazardous

• Toxicity
Non-Toxic under relevant health and safety codes.

LEGAL NOTES
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