BUILDING TRUST

PRODUCT DATA SHEET

Sikament® R4QV PK

High Range Water-Reducing and Slump Retaining Concrete Admixture

DESCRIPTION

Sikament® R4QV PK is a highly effective dual action superplasticizer that imparts excellent slump retention for prolonged periods.
Suitable for use in hot and tropical climatic conditions.

USES

Sikament® R4QV PK can be used as a Superplasticizer for the production of free flowing concrete for:

- Piles, foundations, Slabs, Walls, columns, piers and slender components with dense reinforcement

It is also used as a Water Reducing agent leading to high early strength concrete for:

- Pre-cast concrete elements, Pre-stressed concrete and Bridges and cantilever structures

CHARACTERISTICS / ADVANTAGES

Sikament® R4QV PK provides the following properties:
As a Superplasticizer

- Workability is greatly improved
- Concrete is placed easily
- Especially suitable for slender components with densely packed reinforcement
- Concrete requires less vibrating
- Improved cohesion of the concrete mix significantly reduces the risk of segregation and allows greater time for placement

As a Water Reducer

- Impressive water reduction capability; > 20% water reduction
- Final strength improvement

APPROVALS / STANDARDS

Sikament® R4QV PK follows the requirements of ASTM C494; Type G.

PRODUCT INFORMATION

Chemical Base	Organic Polymer Blend
Packaging	05 ltr jerry can 20 ltr plastic can 200 ltr drum 1000 ltr IBC Bulk supply in tanker is possible on demand
Appearance / Colour	Brown Liquid
Shelf Life	12 months minimum from production date if stored properly in original unopened packaging.
Storage Conditions	The product must be stored properly in undamaged, unopened original sealed packaging in dry conditions at temperatures between +5° C and +35° C. Protect from direct sunlight and frost.
pH-Value	≥ 6

Total Chloride Ion Content	Nil (EN 934-2)
Specific gravity	1.217 ± 0.03

APPLICATION INFORMATION

Recommended Dosage	0.8 - 3 % by weight of binder. Higher dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions, and concrete requirements.
Compatibility	Sikament® R4QV PK may be combined with all types of Portland cement (OPC and SRC), concretes containing pozzolanic materials such as GGBS, PFA, micro-silica and the following Sika products: ▪ SikaPump® ▪ Sika® FerroGard®-901 ▪ SikaFume®-92 D PK ▪ SikaFiber® ▪ Sika® AER PK ▪ Sika® Stabilizer ▪ Sika®-1 WT ▪ Sika® WT-10 We recommend performing trial mixes to establish the required performance when combining Sikament® R4QV PK with the above products or other admixtures. Please consult our Sika Technical Department.
Dispensing	Sikament® R4QV PK is added to the gauging water or simultaneously poured with it into the concrete mixer at the batching plant. Do not add Sikament® R4QV PK directly to the dry mix. For optimum utilization of its high water reduction property we recommend thorough mixing at a minimal wet mixing time of 60 seconds.The addition of the remaining gauging water (to fine tune concrete consistency) may only be started after two-thirds of the wet mixing time to avoid surplus water in the concrete.

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

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

CLEANING OF TOOLS

Clean all tools & application equipment with water immediately after use.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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