BUILDING TRUST

PRODUCT DATA SHEET

SikaPlast® HRM PK

High Range Water Reducing And Slump Retaining Concrete Admixture

DESCRIPTION

SikaPlast® HRM PK is a highly effective dual action liquid superplasticiser that imparts excellent slump retention for prolonged periods. Suitable for use in hot and tropical climatic conditions.

USES

SikaPlast® HRM PK can be used as a superplasticizer for the production of free-flowing concrete for:

- Slabs
- Foundations
- Walls
- Columns
- Piers
- Slender components with dense reinforcement
- Piles

It is also used as a water-reducing agent leading to high early strength concrete for:

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

CHARACTERISTICS / ADVANTAGES

SikaPlast® HRM 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
- Final strength improvement

APPROVALS / STANDARDS

SikaPlast® HRM PK follows the requirements of ASTM C494; Type G and EN 934-2.

PRODUCT INFORMATION

Chemical Base	Aqueous Solution of Modified Polycarboxylates and Copolymer
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	Light Brown to 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	≥ 4
Total Chloride Ion Content	Nil (EN 934-2)
Specific gravity	1.09 ± 0.02

TECHNICAL INFORMATION

Concreting Guidance	The standard rules of good concreting practice for production and placing must be observed when using Sikaplast® HRM-PK in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol® products as a curing agent or apply wet hessian.

APPLICATION INFORMATION

Recommended Dosage	0.8 - 3 % by weight of cement Higher dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions, and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required.
Compatibility	SikaPlast® HRM 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®, SikaFiber® ▪ Sika Aer® ▪ Sika® ▪ Stabilizer ▪ Sika®-1 WT ▪ Sika® WT-10 We recommend to perform trial mixes to establish the required performance when combining SikaPlast® HRM PK with the above products or other admixtures. Please consult our Sika Technical Department.
Dispensing	SikaPlast® HRM PK is added to the gauging water or simultaneously poured with it into the concrete mixer at the batching plant. Do not add SikaPlast® HRM PK directly to the dry mix. For optimum utilization of its high-water reduction property we recommend through 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-third 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.

LIMITATIONS

Before pouring, suitability tests on the fresh concrete must be carried out.
Due to the extended workability take special care that formwork is properly installed and secured.
If frozen and/or if precipitation has occurred, it may only be used after thawing slowly at room temperature and intensive mixing.

When using Sikaplast® HRM-PK a suitable concrete mix must be designed for the local material sources and should be trialed.
When accidental overdosing occurs the set retarding effect and workability increases. Additional air may also be entrained.
During this period the concrete must be kept moist in order to prevent premature drying out.

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.

CLEANING OF TOOLS

Clean all equipment and tools 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.

Sika Pakistan (Pvt.) Limited
141-CCA Phase IV, DHA
Lahore Punjab 54792
Pakistan
phone: +92 42 3569 4266 - 67
fax: +92 42 3569 4268
http://pak.sika.com/

Sika Pakistan (Pvt.) Limited
141-CCA Phase IV, DHA
Lahore Punjab 54792
Pakistan
phone: +92 42 3569 4266 - 67
fax: +92 42 3569 4268
http://pak.sika.com/