

PRODUCT DATA SHEET

SikaPlast®-445 PQ

Water Reducing Superplasticizing admixture

DESCRIPTION

SikaPlast®-445 PQ A highly effective water reducing superplasticizing concrete admixture ideal for usage in production of pavement quality concrete.

USES

SikaPlast®-445 PQ a superplasticizer Specially recommended for the following types of concrete:

- Ready mix concrete for
- Highways/ Roads
- Airport Runways
- Aprons & hard standings etc

CHARACTERISTICS / ADVANTAGES

SikaPlast®-445 PQ produces a more uniformly cohesive high quality concrete. It has following advantages:

- High water reduction.
- Higher strength and density
- Improved durability
- Improved flexural strength
- Improved surface finish
- Improved cohesion properties

APPROVALS / STANDARDS

IS 9103, ASTM C494

PRODUCT INFORMATION

Chemical base	PolyCarboxylate Ether
Packaging	230kg/ Bulk supply
Shelf life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
Storage conditions	Store in dry conditions at temperatures between +10°C and +40°C. Protect from direct sunlight and frost.
Appearance / Colour	Dark Brown Liquid
Density	~ 1.07 kg/l at 25°C
pH-value	≥ 6

APPLICATION INFORMATION

Recommended Dosage	0.5% to 2.0% by weight of cement. Higher dosage may be used if agreed by engineer and consultant Actual dosage to be finalised on the basis of site trials. Stir well before use.
Dispensing	SikaPlast®-445 PQ can be added into the mixing water or directly into the concrete mixer after 50% – 70% of the mixing water has been added. The addition of SikaPlast®-445 PQ to dry aggregate or cement is not recommended. To achieve optimum performance a minimum wet mixing time, which is depending on the mixing conditions and the mixer performance, of 60 seconds is recommended.
Compatibility	SikaPlast®-445 PQ may be combined with many other Sika® products. Compatible with all types of cements and cementitious materials. Important: Always conduct trials before combining products in specific mixes and combinations.

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.

IMPORTANT CONSIDERATIONS

When using SikaPlast®-445 PQ a suitable mix design has to be taken into account and local material sources shall be trialled.

SikaPlast®-445 PQ shall not be added to dry cement. Excessive water addition, overdosing, changes in aggregates properties, cement properties, cementitious materials properties may cause bleeding, segregation or setting issues.

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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

MAINTENANCE

CLEANING

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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