

## PRODUCT DATA SHEET

# SikaPlast®-491 PQ

## Water Reducing SuperPlasticizing Admixture

### DESCRIPTION

SikaPlast®-491 PQ, A highly effective water reducing Superplasticizing concrete admixture ideal for usage in production of pavement quality concrete.

### USES

SikaPlast®-491 PQ a SuperPlasticizer Specially recommended for the following types of concrete:

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

### CHARACTERISTICS / ADVANTAGES

SikaPlast®-491 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

<b>Chemical base</b>	Polycarboxylate Ether
<b>Packaging</b>	255 kg/ Bulk supply
<b>Shelf life</b>	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
<b>Storage conditions</b>	Store in dry conditions at temperatures between +10°C and +40°C. Protect from direct sunlight and frost.
<b>Appearance / Colour</b>	Dark Brown Liquid
<b>Density</b>	~ 1.11 kg/l at 25°C
<b>pH-value</b>	≥ 6

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	0.2% to 2.0% by weight of cementitious. 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.
<b>Dispensing</b>	SikaPlast®-491 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®-491 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.
<b>Compatibility</b>	SikaPlast®-491 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®-491 PQ a suitable mix design has to be taken into account and local material sources shall be trialled.  
SikaPlast®-491 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 issue, workability 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.

## 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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