BUILDING TRUST

PRODUCT DATA SHEET

Sika® Plastiment® P-121 R

Water Reducing and Set Retarding

DESCRIPTION

A liquid concrete plasticizer and high range water reducing agent with set retarding effect.
Complies with A.S.T.M. C 494-92 Type D

USES

Sika® Plastiment® P-121 R is used as a general purpose admixture where the placing conditions for high quality concrete are more demanding such as :

- Elevated temperatures.
- Fair faced concrete.
- Pumped concrete.
- Ready mix concrete.
- Areas where large volumes must be placed at one time.
- High mechanical strengths are required

FEATURES

Sika® Plastiment® P-121 R provides the following properties:

- Increased setting time in hot weather. Accelerated hardening after setting.
- Improved workability without increase water content.
- Reduced water without loss of workability.
- Increased strengths.
- Reduced shrinkage and creep.
- Good slump retention.
- Chloride free – does not attack reinforcement.

PRODUCT INFORMATION

Composition	Modified organic agent
Packaging	Drum 200 L / 240 kg IBC or Bulk 1000 L
Appearance and colour	Liquid / Dark brown
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 +35 °C. Protect from direct sunlight and frost.
Total chloride ion content	< 0.1 % w/w

TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials before concreting on site are strongly recommended when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and as early as possible.

APPLICATION INFORMATION

Recommended dosage	0.10 - 0.35 % by weight of cement (typical dosage : 0.20 % by weight of cement) The dosage rate can be increased up to 0.45 % to overcome difficulties in quality of cement and aggregates, high temperature and difficult placing conditions or in the use of highly absorbent aggregate). It is advisable to carry out trial mixes to establish the exact dosage rate required.
Compatibility	Sika® Plastiment® P-121 R is compatible with all types of Portland cement including S.R.C.

BASIS OF PRODUCT DATA

All technical data stated in this 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.

APPLICATION INSTRUCTIONS

DISPENSING

Sika® Plastiment® P-121 R should be dispensed directly into the mixing water prior to its addition to the aggregates.
When accidental overdosing occurs, Sika® Plastiment® P-121 R does not entrain excessive amounts of air, however the set retarding effect increases. During this period the concrete must be kept moist in order to prevent premature drying out.

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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