

Product Data Sheet

Edition 03/12/2022

Identification no:

01 13 01 01 100 0 00

SikaPlast®

Powered by ViscoCrete®

SikaPlast® 495 PR

High efficient superplasticizer

Product Description

SikaPlast® 495 PR is the latest development of superplasticizer for concrete. It meets the requirements for high range water reducing superplasticizers

Uses

SikaPlast® 495 PR is a unique multipurpose superplasticiser that is particularly suitable for the production of ready mixed concrete. Additionally it provides high water reduction and improved fresh concrete characteristics. With its outstanding cost / performance SikaPlast® 495 PR is used for the following:

- A wide range of applications where excellent workability is requested
- Concrete with high water reduction
- High efficient concrete application
- Variable use in different concrete systems with different raw materials

Characteristics / Advantages

SikaPlast® 495 PR is a powerful superplasticiser based on advanced technology which gives the following advantages:

- Strong water reduction, resulting in high density, high strength and reduced Permeability
- Less sensitive against variations in aggregates and / or different cement types
- High efficiency even at low dosage rates
- Extended workability in conjunction with subsequent strength development
- Superior plasticising effect, resulting in improved flow, placing and compaction Characteristics

Tests

Approval Standard IS 9103, ASTM C494

Product Data

Form

Appearance / Colour Light Brown Liquid

Packaging 230 kg HDPE carboy or Tanker supply.

Storage

Storage Conditions / Shelf -Life 12 months from date of production if stored properly in undamaged unopened, original sealed packaging, in dry conditions at temperatures between +10°C and +40°C. Protect from direct sunlight and frost.

Technical Data

Chemical Base Polycarboxylate ether

Construction



SikaPlast®
Powered by
ViscoCrete®

| | |
|---|--|
| Relative Density | ~1.06 kg/l at 25°C |
| pH | ≥ 6 |
| System Information | |
| Application Details | |
| Consumption / Dosage | 0.2 % to 2% b. w. o. cementitious. Optimum dosage has to be finalized through site trials. Stir well before use. |
| Application Condition/ Limitations | |
| Application Instructions | |
| Dispensing | SikaPlast® 495 PR is added to the gauging water or added with it into the concrete mixer. To take advantage of the high water reduction, a wet mixing time, which is depending on the mixing conditions and mixer performance, of at least 60 seconds is recommended. To avoid excess water in the concrete, the final dosage must begin only after 2/3 of the wet mixing time. |
| Application Method/ Tools | The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and curing applied as early as possible. |
| Cleaning of Tools | Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed. |
| Notes on Application/ Limitation | When using SikaPlast® 495 PR a suitable mix design has to be taken into account and local material sources shall be trialled. SikaPlast® 495 PR 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. |
| Value Base | 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. |
| Health and Safety Information | 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. |
| 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. |



Registered office: Sika India Pvt. Ltd.
Commercial Complex II
620, Diamond Harbour Road
Kolkata, 700 034, India

Phone +91 33 2447 2448/2449
Telefax +91 33 2397 8688
ind.sika.com
info.india@in.sika.com

SikaPlast®
Powered by
ViscoCrete®