

PRODUCT DATA SHEET

SikaPlast[®]-400 LF

MID-RANGE WATER REDUCING ADMIXTURE

PRODUCT DESCRIPTION

SikaPlast[®]-400 LF is a lignin-free, polycarboxylate based, mid-range water reducing admixture. SikaPlast[®]-400 LF meets the requirements of ASTM C494/AASHTO M 194, Type A & F.

USES

SikaPlast[®]-400 LF can be used in all types of conventional ready mix concrete applications and is effective in concrete containing Portland Limestone Cement (PLC/Type IL) and supplementary cementitious materials.

CHARACTERISTICS / ADVANTAGES

Various levels of water reduction can be achieved by adjusting the dosage rate of SikaPlast[®]-400 LF.

When used as a mid-range water reducing admixture, water reduction up to 12% can be obtained. At higher dosage rates increased water reduction up to 15% can be achieved making it suitable for some high range water reducing applications. The plasticizing action of SikaPlast[®]-400 LF allows for the production of flowable concrete with moderate workability and slump retention that can typically be placed with minimal vibration even at a low water/cementitious ratio.

At lower dosages rates, SikaPlast[®]-400 LF is an effective normal water reducing admixture. This application is ideal for use with lean, harsh concrete mixes or concrete containing supplementary cementitious materials.

The combined water reducing and plasticizing action of SikaPlast[®]-400 LF provides the following benefits:

- Reduced water cement ratios produce more durable, dense concrete,
- Increased slump and workability improves efficiency of labor and reduces labor costs,
- Improved finishing characteristics,
- Increased strengths allow faster structural use of concrete.

SikaPlast[®]-400 LF does not contain any intentionally added chlorides.

ENVIRONMENTAL INFORMATION

Enables a substantially lower carbon footprint through reduction in cementitious materials. Reduces the amount of water required to produce concrete.

For further information, please visit:
<https://usa.sika.com/en/sustainability.html>

PRODUCT INFORMATION

Packaging

Available in 55-gallon (208-liter) drums, 275-gallon (1040-liter) totes and bulk delivery

Shelf Life	Shelf life when stored in original packaging in dry warehouse conditions between 40°F and 80°F (5-27°C) is one year from the date of manufacture.
Storage Conditions	SikaPlast®-400 LF should be stored above 40 °F (5 °C). If frozen, thaw and agitate thoroughly to return to a normal state. Protect from direct sunlight.
Appearance / Color	Gold to Amber Liquid
Specific gravity	Approx. 1.135

APPLICATION INFORMATION

Recommended Dosage

The typical dosage rate of SikaPlast®-400 LF will vary between 2-12 fl oz / 100 lb. (130-780 mL / 100 kg) of cement or cementitious materials. At low and moderate dosage rates, SikaPlast®-400 LF performs as a normal and mid-range water reducing admixture. At higher dosage rates, SikaPlast®-400 LF performs as a high range water reducing admixture. Various factors will affect the dosage rates. Dosage rates outside of the typical range may be used.

Trial mixes with the actual materials should be conducted to determine the required dosage for optimum performance.

To the extent specialized materials are used, extreme ambient temperatures are encountered, or for other unusual project conditions, dosage rates outside the typical range may be required. For dosage rates outside the typical range, please contact your local Sika representative or the Sika Technical Services Department at 1-800-933-7452.

Mixing

Measure the required quantity manually or by automated dispenser. Add SikaPlast®-400 LF directly into the freshly mixed concrete, or as an integral material in the batching cycle. Do NOT mix with dry cement. SikaPlast®-400 LF may be dispensed on-site directly prior to placement. Care must be taken to mix thoroughly. When used in combination with other admixtures dispense each admixture separately into the mix.

Compatibility: SikaPlast®-400 LF can be used in combination with other Sika admixtures and can be successfully used in mix designs utilizing supplementary cementitious materials.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

ENVIRONMENTAL, HEALTH AND SAFETY

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the

current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

Sika Corporation

201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com



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