

PRODUCT DATA SHEET

Sikacrete[®]-540

READY-MIX CONCRETE MATERIAL

PRODUCT DESCRIPTION

Sikacrete[®]-540 is a pre-blended and pre-packaged concrete material formulated with carefully selected components for general construction applications.

USES

Sikacrete[®]-540 can be used for applications including but not limited to:

- Rehabilitation of concrete structures,
- New construction including slope stabilization, soilnailing, shaft and tunnel linings,
- Initial and secondary tunnel support.

CHARACTERISTICS / ADVANTAGES

Sikacrete[®]-540 provides the following benefits:

- Improved adhesive and cohesive plastic properties,
- High strength performance,
- Optional admixtures pre-blended in product.

Sikacrete[®]-540 is blended with the combination of the following optional features and benefits:

Poly Fiber (PF)

- Reduces cracking caused by intrinsic stress,
- Temperature reinforcement,
- Alkali, acid, and salt resistant,
- Product with descriptor: **Sikacrete[®]-540 PF.**

Steel Fiber (ST)

- Significantly increased load carrying capacity,
- Significantly increased energy absorbing capacity (toughness),
- Significantly increased impact resistance,
- Reduced permeability,
- Reduced cracking due to drying shrinkage,
- Product with descriptor: **Sikacrete[®]-540 ST.**

Crystalline Waterproofing (CW)

- Crystalline technology to prevent water penetration in concrete structures,
- Creates a network of insoluble, microscopic crystals within the concrete,
- Improved efficiency of construction and durability of structures,
- Product with descriptor: **Sikacrete[®]-540 CW.**

For additional admixture options, contact your Sika STM Technical Representative.

PRODUCT INFORMATION

Packaging	Available in 1,675 lb (760 kg), 1,700 lb (771 kg), 3,350 lb (1,520 kg), and 3,400 lb (1,542 kg) bulk bags.
Shelf Life	Shelf life when stored in dry warehouse conditions between 40°F and 95°F (5-35°C) is one year from the date of manufacture.
Storage Conditions	Sikacrete®-540 must be stored in a dry environment. If exposed or unprotected Sikacrete®-540 will absorb moisture resulting in an unusable product. Physical properties may be adversely affected if stored in temperatures below 40°F (5°C) and material should be allowed to warm to ambient underground temperatures before use.

TECHNICAL INFORMATION

Compressive Strength		ASTM C39
	28 days	3,000 - 6,000 psi (21 - 40 MPa)

APPLICATION INFORMATION

Coverage	Approx. 0.5 yd ³ per 1,700 lb bulk bag (0.38 m ³ per 771 kg bulk bag) Approx. 1.0 yd ³ per 3,400 lb bulk bag (0.76 m ³ per 1,542 kg bulk bag)
-----------------	--

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.

AVAILABILITY/WARRANTY

Each of the following descriptors / features can be used in a specific mix design, either on their own or in combination with any other descriptors / features.

Descriptors / Features of fiber dosages:

Steel Fibers	ST
Poly Fibers	PF

Descriptors / Features of other technologies:

Crystalline Waterproofing	CW
---------------------------	----

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

For more information on mixing, dosage, and application recommendations, please contact your Sika STM Technical Representative.

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



Product Data Sheet

Sikacrete®-540
November 2024, Version 01.01
020302040030000580

Sikacrete-540-en-US-(11-2024)-1-1.pdf

