



REFURBISHMENT

SikaTop[®] REPAIR MORTARS

BUILDING TRUST



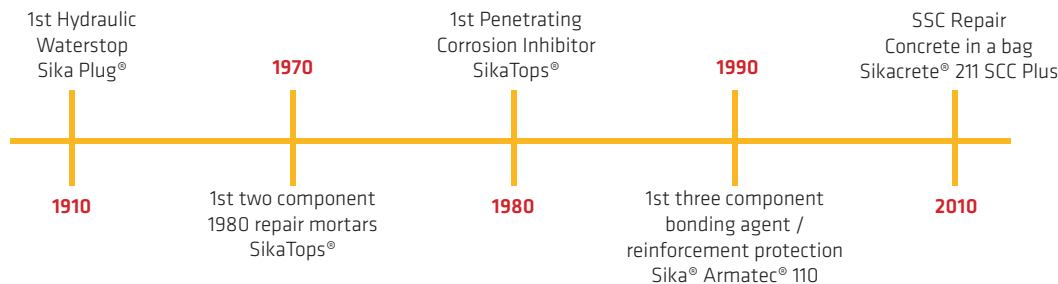
CONCRETE REPAIR

Our Strength & Focus

SIKA CORPORATION - A PROUD HISTORY.

Sika Corporation is undoubtedly the market leader in product offerings for the concrete repair industry. Sika represents quality, innovation, and reliability, which all successfully combine to build an excellent relationship of trust with our customers.

In 1910, Sika introduced a water plug to the construction market, a revolutionary product of its time. The mission to innovate continues today in all the Sika companies around the globe. Today, innovation at Sika USA continues to be the cornerstone of our success. Some of Sika's landmark contributions in the field of repair mortars are summarized below



SikaTop® - THE EPITOME OF PERFORMANCE AND DURABILITY - YESTERDAY AND TODAY

No other products continue to dominate their respective market segments like SikaTop has dominated since its introduction into the concrete repair world. Sika launched the concept of two component products to the repair industry some forty years ago. Very soon after its launch, SikaTop became the product line of choice for difficult concrete repairs. Engineers and contractors equally embraced this exciting new product as a part of their solutions for all concrete repair work. Continuing to innovate and improve within the first decade of introduction, Sika was the first company to offer an integral corrosion inhibitor, a welcome addition to the SikaTop line.

Today, Sika continues to invest and innovate in concrete repair solutions in order to meet the new challenges and industry requirements. SikaTops are now turning a new page in their product life cycle as they have now been tested in accordance with the Guideline for Inorganic Repair Material Data Sheet Protocol (Guideline No. 320.3R-2012), published by the International Concrete Repair Institute.

DURABILITY

Shrinkage, Test Methods & Performance

Dimensional stability in repair mortars also referred to as shrinkage is undoubtedly the most important material property for long term durability in repair mortars. Consensus on shrinkage being so paramount for the success of repairs is an established fact, however test method to determine shrinkage continue to be debated in different forums and associations. Factors such as size, geometry, environmental curing conditions, etc. all play a role in the shrinkage numbers that are reported by different test methods. Sika has taken the approach of not choosing any one specific test to understand dimensional stability in SikaTops and have elected to test four well known and widely accepted test methods to understand shrinkage and resultant likelihood of cracking in SikaTops.

Internal and Independent test reports confirm Sika Tops have yet again proved very well in all the four test methods, by far exceeding the industry requirements and benchmarks. The bar has yet again been raised by the most reliable and credible repair mortar family known to the US market!

RECLAMATION *Managing Water in the West*

Concrete Repair Engineering Experimental Program (C.R.E.E.P)

Development of a Test Method to Evaluate Cracking Tendency of Repair Materials, Phase I Report

Research Report 2004-1



U.S. Department of the Interior
Bureau of Reclamation
Denver, Colorado

March 2005



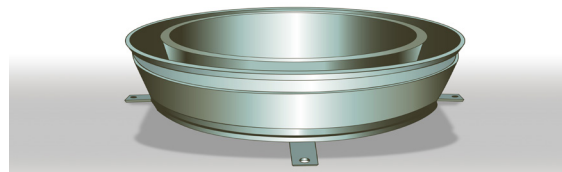
TECHNICAL GUIDELINES

Prepared by the International Concrete Repair Institute August 2012

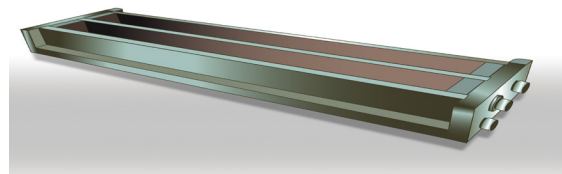
Guideline for Inorganic Repair Material Data Sheet Protocol

Guideline No. 320.3R-2012

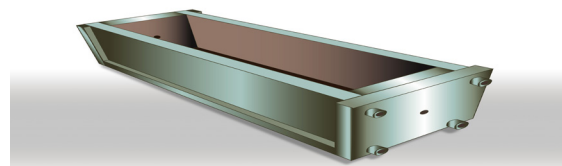
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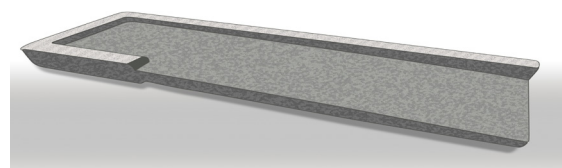
(a) ASTM C1581/C1581M: Ring shaped specimens used for determining age at cracking and induced tensile stress of mortar and concrete under restrained shrinkage



(b) Length change measured per ASTM C157/C157M modified in ICRI TDS Protocol using 3 X 3 X 11 1/4 in. mold



(c) Length change measured per ASTM C157/C157M modified in ICRI TDS Protocol using 1 X 1 X 11 1/4 in. mold



(d) Baenzinger Block: Sika's internal test method. Also confirmed as the optimal geometry for evaluating the sensitivity of a repair material to cracking in an independent study by the U.S. Department of the Interior, Bureau of Reclamation.

PRODUCT PORTFOLIO

With an outstanding track record of forty years and a nationally recognized portfolio of projects, this product family has withstood the test of time and durability. A repair mortar for every application, whether trowel grade, flowable, or a gel mortar for overhead repairs, SikaTop has it all!



SikaTop® 123 PLUS

Vertical & Overhead Mortar



FEATURES

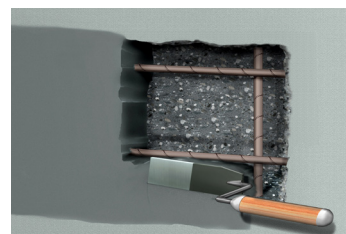
- 1.5" in one lift
- Thermally compatible with concrete
- Second lift in as little as 30 minutes

KEY PHYSICAL PROPERTIES

Properties	PDS Values	Test	Method
Shrinkage - 28 days	<0.05%	ASTM	C1583
Ring Test	>60 days	ASTM	C1581
Compressive Strength - 1 day	3,000 psi	ASTM	C109
Compressive Strength - 28 day	6,000 psi	ASTM	C109
Bond Strength - 28 days	1,650 psi	ASTM	C882
Freeze Thaw Resistance - 300 cycles	98%	ASTM	C666

SikaTop® Range Overview

	SikaTop 123 Plus	SikaTop 122 Plus	SikaTop 111 Plus
Application:	Vertical/Overhead	Horizontal	Horizontal
Max Lift Depth:	1.5"	1"-Neat / 4" Extended	
Shrinkage <0.05%	Yes	Yes	Yes
ANSI/NSF 61 Approved	Yes	Yes	Yes
Corrosion Inhibitor	Yes	Yes	Yes
Foot Traffic	N/A	4-6 hrs.	4-6 hrs.
Unit Weight	44 lbs.	50 lbs.	50lbs.
Yield	0.39 cu.ft.	0.5 cu.ft.	0.5 cu.ft.



SikaTop® 122 PLUS

Horizontal Trowel Grade Mortar



FEATURES

- Exceptional use in sloped applications
- Excellent carbonation resistance
- USDA for food contact

SikaTop® 111 PLUS

Horizontal Screed Mortar



FEATURES

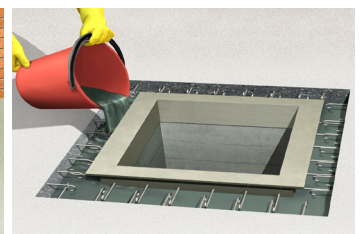
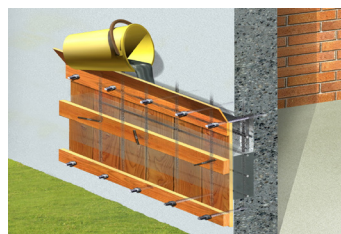
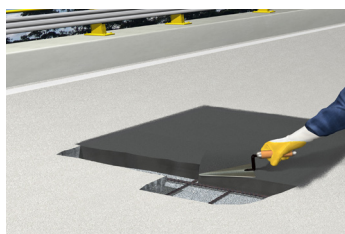
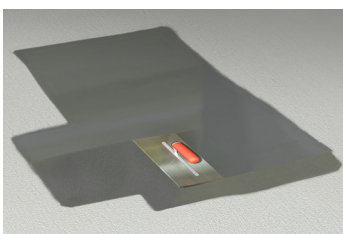
- Free flowing for difficult areas
- Up to 6" lifts extended
- Foot traffic in as little as 4 hours

KEY PHYSICAL PROPERTIES

Properties	PDS Values	Test	Method
Shrinkage - 28 days	<0.05%	ASTM	C1583
Ring Test	>60 days	ASTM	C1581
Compressive Strength - 1 day	2,500 psi	ASTM	C109
Compressive Strength - 28 day	7,000 psi	ASTM	C109
Bond Strength - 28 days	2,200 psi	ASTM	C882
Freeze Thaw Resistance - 300 cycles	98%	ASTM	C666

KEY PHYSICAL PROPERTIES

Properties	PDS Values	Test	Method
Shrinkage - 28 days	<0.05%	ASTM	C1583
Ring Test	>60 days	ASTM	C1581
Compressive Strength - 1 day	2,500 psi	ASTM	C109
Compressive Strength - 28 day	6,500 psi	ASTM	C109
Bond Strength - 28 days	2,000 psi	ASTM	C882
Freeze Thaw Resistance - 300 cycles	98%	ASTM	C666



PROJECT GALLERY

Structures strengthened with Sika's product solutions and services



MIAMI CITY HALL BUILDING



Owner: City of Miami
Location: Miami, FL
Year: 2008
Product: SikaWrap® 230C

Application:
Strengthening of columns

Significance:
Renovation of the 1927 Old Miami City Hall Building - A Historic Landmark

Award:
ICRI Award of Merit - 2008



TODD BOLENDER CENTER



Owner: Todd Bolender Center for Dance and Creativity
Location: Kansas City, MO
Year: 2011
Product: SikaTop® 123 Plus

Application:
Exterior concrete repair

Significance:
Transformation of industrial building into ballet center

Awards:
ICRI Project of the year - 2011



FRENCHMAN'S REEF

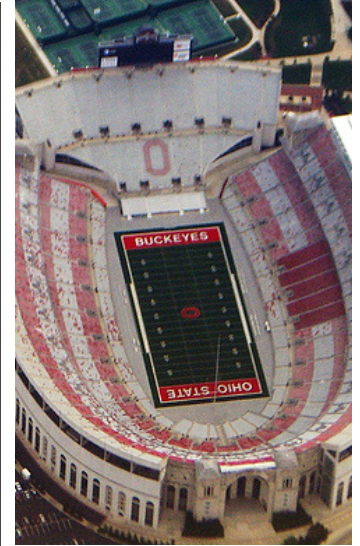


Owner: Diamond Rock Hospitality
Location: St. Thomas, U.S.V.I.
Year: 2011
Product: SikaTop® 123 & 122

Application:
Balcony and Column repairs

Significance:
Durable repairs for a structure in a highly corrosive environment

Awards:
ICRI Award of Merit - 2011



OHIO HORSESHOE STADIUM



Owner: Ohio State University
Location: Columbus, OH
Year: 2001
Product: SikaWrap® 103C

Application:
Strengthening of columns

Significance:
Meet the building code / time sensitive repair

Award:
ICRI Project of the Year - 2001

Image courtesy of www.flickr.com



BAYLOR CANCER CENTER



Owner: Baylor Medical Center

Location: Dallas, TX

Year: 2011

Product: SikaTop® 111 Plus

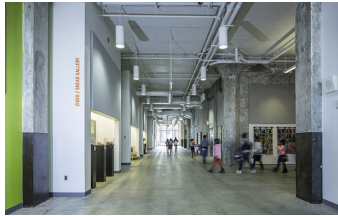
Application:
Beam enlargement

Significance:
Budling and Section enlargement of beams

Award:
ICRI Award of Excellence - 2011



BALTIMORE ARTS SCHOOL



Owner: City of Baltimore

Location: Baltimore, MD

Year: 2013

Product: SikaTop® 123 Plus

Application:
Concrete repair

Significance:
Corrosion damaged concrete repair

Award:
ICRI Project of the Year - 2013



LOUISIANA STATE UNIVERSITY



Owner: Louisiana State University

Location: Baton Rouge, LA

Year: 2013

Product: SikaTop® 123 Plus

Application:
Concrete repair

Significance:
Corrosion damaged concrete repair

Awards:
ICRI Award of Merit- 2013



945 GREEN STREET



Owner: Privately Owned

Location: San Francisco, CA

Year: 2013

Product: SikaTop® 123 Plus

Application:
Concrete repair

Significance:
Durable repairs for a structure in a highly corrosive environment

Awards:
ICRI Award of Excellence- 2014

SIKA FULL RANGE SOLUTIONS FOR CONSTRUCTION:



WATERPROOFING



CONCRETE



REFURBISHMENT



SEALING AND BONDING



FLOORING



ROOFING

FOR MORE INFORMATION:



All sales of Sika products are subject to Sika's current Terms and Conditions of Sale available at www.sikausa.com or by calling 201-933-8800. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Material Safety Data Sheet, which are available at www.sikausa.com or by calling Technical Services at 1-800-933-7452. Nothing contained in any Sika 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 Data Sheet, product label and Material Safety Data Sheet prior to product use.

The sale of all Sika products are subject to the following Limited Warranty:

LIMITED MATERIAL WARRANTY

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 shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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.

Our most current General Sales Conditions shall apply. Please consult the Product Data Sheets prior to any use and processing.



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