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SIKATOP® 111 PLUS

Two component, polymer-modified, cementitious, screed mortar plus FerroGard 901 penetrating corrosion inhibitor

DESCRIPTION

SikaTop 111 PLUS is a two component, polymer modified, portland cement, fast-setting, screed mortar. It is a performance repair mortar for horizontal, vertical and overhead applications or form and pour application. It offers the additional benefit of FerroGard 901, a penetrating corrosion inhibitor.

HOW TO USE

SUBSTRATE

Concrete, mortar, and masonry products

SURFACE PREPARATION

Concrete/Mortar: Remove all deteriorated concrete, dirt, oil, and grease. Be sure repair area is not less than 1/2" in depth. Substrate should be saturated surface dry (SSD) with no standing water, during application.

Reinforcing Steel: Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. For priming of reinforcing steel, use Sika Armatec 110 EpoCem.

PRIMING

Concrete Substrate: Prime the prepared substrate with a brush or sprayed applied coat of Sika Armatec 110 EpoCem. Alternately, a scrub coat of SikaTop 111 Plus can be applied prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.

PACKAGING AND YIELD

Component 'A' - 1 gal. plastic jug
Component 'B' - 61.5 lb. multi-wall bag

Approximate yield: .5 cu.ft./unit, .75 cu.ft./unit with the addition of 42 lbs. of 3/8" pea gravel

WHERE TO USE

- On grade, above, and below grade on concrete and mortar
- On horizontal, vertical, and overhead surfaces
- As a structural repair material for parking facilities, industrial plants, walkways, bridges, tunnels, and dams
- Free-flowing repair mortar for hard to reach areas
- Filler for voids and cavities
- Overlay in cathodic protection systems

ADVANTAGES

- High compressive and flexural strengths
- High early strengths
- Opens to traffic fast; foot in 4-6 hours, pneumatic tire in 8-12 hours
- USDA approved
- ANSI/NSF Standard 61 potable water approved

TYPICAL DATA FOR SIKATOP 111 PLUS (Material and curing conditions @ 73F and 50% R.H.)

APPLICATION TIME Approximately 30 minutes.

FINISHING TIME 50-120 minutes.

Note: All times start after adding Component 'B' to Component 'A' and are highly affected by temperature, relative humidity, substrate temperature, wind, sun, and other jobsite conditions.

FLEXURAL STRENGTH (ASTM C-293)
28 days 1,500 psi (10.3 MPa)

BOND STRENGTH* (ASTM C-882 modified):
28 days 2,500 psi (17.2 MPa)

**COMPRESSIVE STRENGTH (ASTM C-109)
(mortar)**
1 day 2,500 psi (17.2 MPa)
7 days 5,500 psi (37.9 MPa)
28 days 7,000 psi (48.3 MPa)

SIKATOP® 122 PLUS

Two component, polymer modified, cementitious, trowel-grade mortar plus FerroGard 901 penetrating corrosion inhibitor

DESCRIPTION

SikaTop 122 PLUS is a two-component, polymer modified, portland cement, fast-setting, trowel grade mortar. It is a high performance repair mortar for horizontal and vertical surfaces and offers the additional benefit of FerroGard 901, a penetrating corrosion inhibitor.

HOW TO USE

SUBSTRATE

Concrete, mortar, and masonry products

SURFACE PREPARATION

Concrete/Mortar: Remove all deteriorated concrete, dirt, oil, and grease. Be sure repair area is not less than 1/8" in depth. Substrate should be saturated surface dry (SSD) with no standing water, during application.

Reinforcing Steel: Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. For priming of reinforcing steel, use Sika Armatec 110 EpoCem.

PRIMING

Concrete Substrate: Prime the prepared substrate with a brush or sprayed applied coat of Sika Armatec 110 EpoCem. Alternately, a scrub coat of SikaTop 122 Plus can be applied prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.

WHERE TO USE

- On grade, above, and below grade on concrete and mortar
- On horizontal surfaces
- As a structural repair material for parking structures, industrial plants, walkways, bridges, tunnels, dams, and ramps
- To level concrete surfaces
- As an overlay system for topping/resurfacing concrete
- Overlay in cathodic protection system

ADVANTAGES

- High compressive and flexural strengths
- High early strengths. Opens to traffic fast; foot in 4-6 hrs, pneumatic tire in 8-12 hours
- Conforms to ECA/USPHS standards for surface contact with potable water
- USDA approved for food industry
- ANSI/NSF Standard 61 potable water approved

PACKAGING AND YIELD

Component 'A' - 1 gal. plastic jug
Component 'B' - 61.5 lb. multi-wall bag
Approximate yield: .51 cu.ft./unit mortar, .75 cu.ft./unit concrete (SikaTop 122 & 42 lbs. of 3/8" pea gravel)

TYPICAL DATA FOR SIKATOP 122 PLUS (Material and curing conditions @ 73F (23C) and 50% R.H.)

APPLICATION TIME Approximately 30 minutes.

FINISHING TIME 50-120 minutes

Note: All times start after adding Component 'B' to Component 'A' and are highly affected by temperature, relative humidity, substrate temperature, wind, sun and other jobsite conditions.

FLEXURAL STRENGTH (ASTM C-293)
28 days 2,000 psi (13.8 MPa)

BOND STRENGTH* (ASTM C-882 MODIFIED)
28 days 2,200 psi (15.2 MPa)

COMPRESSIVE STRENGTH (ASTM C-109)
1 day 3,000 psi (20.7 MPa)
7 days 5,500 psi (37.9 MPa)
28 days 7,000 psi (48.3 MPa)

CORROSION TESTING FOR FERROGARD 901
Cracked Beam Corrosion Tests:
Reduced corrosion rates 63% versus control specimens
ASTM G109 modified after 400 days

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