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# SIKAREPAIR® SHA

**Fast-setting, cement-based repair mortar with superior high build properties**

### DESCRIPTION

SikaRepair SHA is a fast-setting, cement-based ready to use repair mortar. The incorporation of low density aggregates allows high build applications on vertical and overhead surfaces. SikaLatex R may be used instead of water for a two component, polymer-modified repair mortar.

### WHERE TO USE

- Fast repairs to horizontal, overhead and vertical concrete and mortar surfaces on grade, above, and below grade.
- As a repair material for building facades, parking structures, industrial plants, bridges, walls, floors, etc.

### ADVANTAGES

- Minimal time required between lifts
- Fast finishing time
- Application up to 3 inches on horizontal and vertical surfaces in one layer
- High bond strength ensures excellent adhesion
- Suitable for exterior and interior applications.

# SIKAREPAIR® SHB

**Cement-based repair mortar with superior high build properties**

### DESCRIPTION

SikaRepair SHB is a cement-based ready to use repair mortar. It is a multi-purpose mortar which can be applied by trowel or low pressure wet spray process. The incorporation of low density aggregates allows high build applications on vertical and overhead surfaces. SikaLatex R may be used instead of water for a two component, polymer-modified repair mortar.

### WHERE TO USE

- Fast repairs to overhead and vertical concrete on mortar surfaces on grade, above, and below grade.
- As a repair material for building facades, parking structures, industrial plants, bridges, walls, floors, etc.

### ADVANTAGES

- Application up to 3 inches on horizontal and vertical surfaces in one layer
- Application by hand or low pressure wet spray method
- High bond strength ensures excellent adhesion
- Suitable for exterior and interior applications

## HOW TO USE SIKAREPAIR SHA & SHB

### SUBSTRATE

Concrete, mortar, masonry products

### SURFACE PREPARATION

#### Concrete/Mortar:

Remove all bond-inhibiting materials. Obtain an exposed aggregate surface profile of ±1/16 in. Substrate should be saturated surface dry (SSD).

#### Reinforcing Steel:

Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. For priming of reinforcing steel use Sikadur 32.

#### Concrete Substrate:

Prime the prepared substrate with a brush applied coat of Sikadur 32 or Latex R. Alternately, a scrub coat of SikaRepair SHA or SHB can be applied prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.

### TYPICAL DATA FOR SIKAREPAIR SHA

(Material and curing conditions @ 73F and 50% R.H.)

**MIXING RATIO** -- 1 50 lb. bag SikaRepair SHA + approximately 1 gal. SikaLatex (R)

**APPLICATION TIME** -- Approximately 20-30 minutes

**FINISHING TIME** -- 30-40 minutes

**TIME BETWEEN LIFTS** -- Less than 1 hour

COMPRESSIVE STRENGTH (ASTM C-1090)		With Latex R	
1 Day		2500 psi	(17.2 MPa)
7 Days		3500 psi	(24.1 MPa)
28 Days		5000 psi	(34.5 MPa)

FLEXURAL STRENGTH (ASTM C-293)			
28 Days	800 psi	(5.5 MPa)	1100 psi (9.7 MPa)

BOND STRENGTH *(ASTM C-882 MODIFIED)			
28 days	1000 psi	(6.8 MPa)	1800 psi (12.4 MPa)

### PACKAGING OF SIKAREPAIR SHA & SHB

50 lb. (22.7 kg) multi-wall bag + 1 gal. Latex R

### YIELD

0.55 cu.ft/50 lb. bag + 1 gal. Latex R

### TYPICAL DATA FOR SIKAREPAIR SHB

(Material and curing conditions @ 73F and 50% R.H.)

**MIXING RATIO** -- 1 50 lb. bag SikaRepair SHB + approximately 1 gal. SikaLatex (R)

**WORKING TIME** -- Approximately 30 minutes

**FINISHING TIME** -- (Initial Set) 2-3 hours

COMPRESSIVE STRENGTH (ASTM C-1090)		With Latex R	
1 Day		2500 psi	(17.2 MPa)
28 Days		5000 psi	(34.5 MPa)

FLEXURAL STRENGTH (ASTM C-293)			
28 Days	800 psi	(5.5 MPa)	1100 psi (9.7 MPa)

BOND STRENGTH *(ASTM C-882 MODIFIED)			
28 days	1000 psi	(6.8 MPa)	1800 psi (12.4 MPa)

### MIXING FOR 50 LB. BAG

**With Latex R:** For polymer modification, SikaRepair SHA & SHB may be used with Sika Latex R. Pour 4/5 of 1 gallon of Sika Latex R into the mixing container. Slowly add powder while continuing to mix mechanically as above. Adjust Sika Latex R to obtain the desired consistency. NOTE: Sika Latex R must be protected from freezing. If frozen, discard.

### APPLICATION & FINISH

**SIKAREPAIR SHB** can be applied either by hand or wet spray process equipment. The mixed **SIKAREPAIR SHA & SIKAREPAIR SHB** must be worked well into the primed substrate, filling all pores and voids.

### LIMITATIONS

- 1/8" minimum in 1 lift
- Maximum 3" vertical
- Maximum 1 1/2" overhead

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