

# **SikaRepair SHB**

## **Application Instructions**



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## SikaRepair SHB

- ▲ One-component, cementitious, multipurpose mortar.
- ▲ Low density aggregates allows high build applications on vertical and overhead surfaces.
- ▲ SikaLatex R and SikaLatex may be used for development of a polymer modified repair mortar.



# SikaRepair SHB

## ▲ Where to use:

- On Grade, above, and below grade on concrete and mortar.
- Fast repair to vertical and overhead surfaces.
- As a repair material for:
  - Parking structures
  - Building facades
  - Industrial plants
  - Bridges, etc.



## SikaRepair SHB

### ▲ Packaging:

- SikaRepair SHB – 50 lb. bag.
- SikaLatex R – 1 gal. plastic jug.

### ▲ Coverage:

- .55 cu. ft./bag
- 950 cu. inches./bag



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## Surface Preparation

### ▲ Cementitious Substrates:

- Should be clean and sound.
- Remove contaminants and bond inhibiting materials from repaired area.
- Obtain exposed/fractured aggregate surface ~1/16 to 1/8 inch profile (ICRI CSP 5 & above).
- Substrate must be saturated surface dry (SSD) with no standing water.



# Surface Preparation

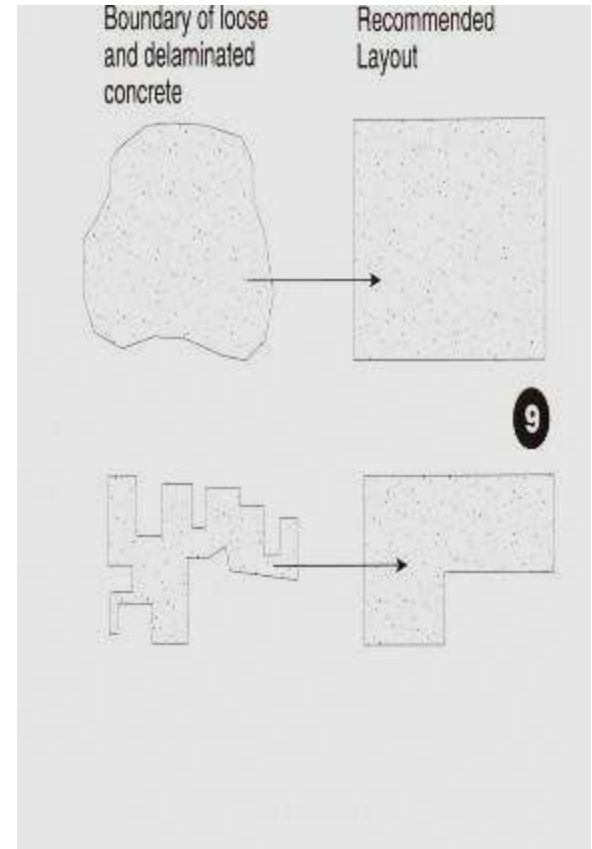
## ▲ Cementitious Substrates:

- Surface should be cleaned and roughened to create a profile.



## Surface Preparation

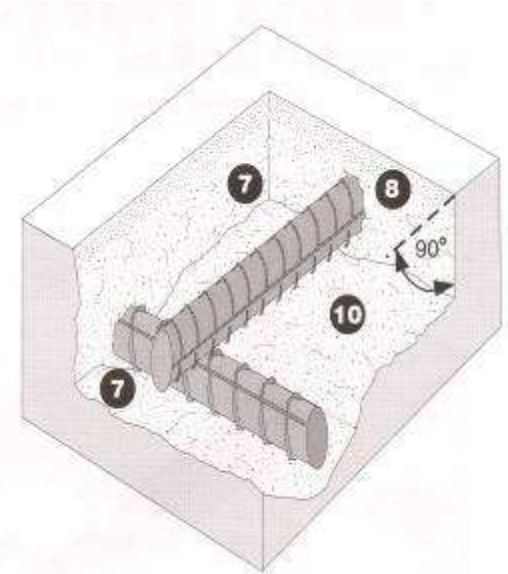
- ▲ Saw cut around perimeter of repair area to achieve a minimum 3/8" shoulder.
- ▲ Eliminates feathered edges giving a clean repair transition



## Surface Preparation

### ▲ Steel:

- Remove all corrosion and contaminants from exposed steel.
- Surface should be cleaned thoroughly by blast cleaning or mechanical means.
- Exposed steel should be cleaned to white steel.
- If half of the diameter is exposed, chip behind bar  $\frac{1}{2}$ " minimum for mortar only.





## Steel Preparation

- ▲ Steel should be cleaned to a bright metal finish.



## Tools Required

- ▲ 1/2" Drill Motor.
- ▲ Low speed drill  
400-600 rpm.
- ▲ Large mixing paddle
- ▲ Margin trowel



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## Mixing

- ▲ Pour Water or Latex R into clean pail.
- ▲ Leave approximately 1" of Water or Latex R in jug.



## Mixing

- ▲ Add SikaRepair SHB to pail with Water or Latex R already inside, while mixing continuously.



## Mixing

1. Water or Latex R  $\frac{3}{4}$  -1 gallon of liquid.
2. Start with adding liquid to the mixing container.
3. Slowly add powder.
4. Once all the powder is added mix for **3 minutes**.
5. Do not add any more than the recommended liquid.





## Mixing

1. While mixing for 3 minutes stop to scrape after 1.5 minutes down the sides to insure all material is fully mixed.
2. Add additional Water or Latex R for desired consistency.
3. Most cases you will have liquid left.
4. Thorough mixing and proper proportioning is necessary.



## SR SHB - Application

- ▲ Apply the mortar to the patch area while the Armatec 110 EpoCem is still wet.
- ▲ If Armatec is not used as a bonding agent, SSD the surface and scrub coat the repair mortar into the substrate filling all pores and voids.



## SR SHB - Application

- ▲ Apply SikaRepair repair mortar to patch.
- ▲ Press mortar behind rebar and make sure the material is consolidated and compacted fully.



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## SR SHB - Application

- ▲ Complete filling patch area.
- ▲ Work mortar from the center of the patch to the outside.



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## Min / Max application thickness

### ▲ Water

- Min 1/4 inch
- Max 3.0 inch – Vertical  
1.5 inch – Overhead

### ▲ Latex R

- Min 1/8 inch
- Max 3.0 inch – Vertical  
1.5 inch – Overhead

### ▲ SikaRepair SHB cannot be extended with aggregate.



## SikaRepair SHB - Finish

- ▲ After filling patch section, allow mortar to set to desired stiffness.
- ▲ Then finish with steel, wood, plastic floats, or damp sponge float to attain look required.



## SikaRepair SHB - Finish

- ▲ To assist in the finishing of the SikaRepair use SikaFilm.
  - SikaFilm is a finishing aid that also retards moisture evaporation.



## SikaRepair SHB - Finish

- ▲ You can use a steel trowel to attain a smooth surface.



## Sponge Float Finish

- ▲ You can use Sponge float to attain a textured surface.





## SikaRepair Curing

- ▲ Cure as per ACI recommendations. Curing is required.
- ▲ Moist cure with wet burlap and polyethylene, a fine mist of water or water based curing compound.
- ▲ Moist curing should commence immediately after finishing.
- ▲ Protect newly applied material from direct sun light, wind, rain and frost.



# SikaRepair SHB

Sika Product Data Sheets can be obtained via:

[www.sikaconstruction.com](http://www.sikaconstruction.com)

Refer to data sheets for specific information on each Sika product.



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