SikaRepair SHB

Application
Instructions
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
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 ½” minimum for mortar only.
Steel Preparation

▲ Steel should be cleaned to a bright metal finish.
Tools Required

- ½” Drill Motor.
- Low speed drill
  400-600 rpm.
- Large mixing paddle
- Margin trowel
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 ¾ - 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.
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.
SR SHB - Application

▲ Complete filling patch area.

▲ Work mortar from the center of the patch to the outside.
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.
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

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