SikaRepair SHA

Application Instructions
SikaRepair SHA

- One-component.
- Fast-setting, Cementitious.
- 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 mortor.
SikaRepair SHA

▲ Where to use:

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

▲ Packaging:
- SikaRepair SHA - 50 lbs. 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 or repair area to achieve a minimum 3/8” shoulder.

▲ This will eliminate feather edging the product and give a clean transition for the repair.
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 SHA) 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 SHA - 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 SHA - Application

▲ Apply SikaRepair repair mortar to patch.

▲ Press mortar behind rebar and make sure the material is consolidated and compacted fully.
SR SHA - 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 SHA cannot be extended with aggregate.
SikaRepair SHA - 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.
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 compound should commence immediately after finishing.
▲ Protect newly applied material from direct sun light, wind, rain and frost.
SikaRepair SHA

Sika Product Data Sheets can be obtained via:

www.sikaconstruction.com

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