Construction

SikaRepair SHA

Application Instructions

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Construction

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.

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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.

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- Packaging:
  - SikaRepair SHA - 50 lbs. 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.

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Surface Preparation

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

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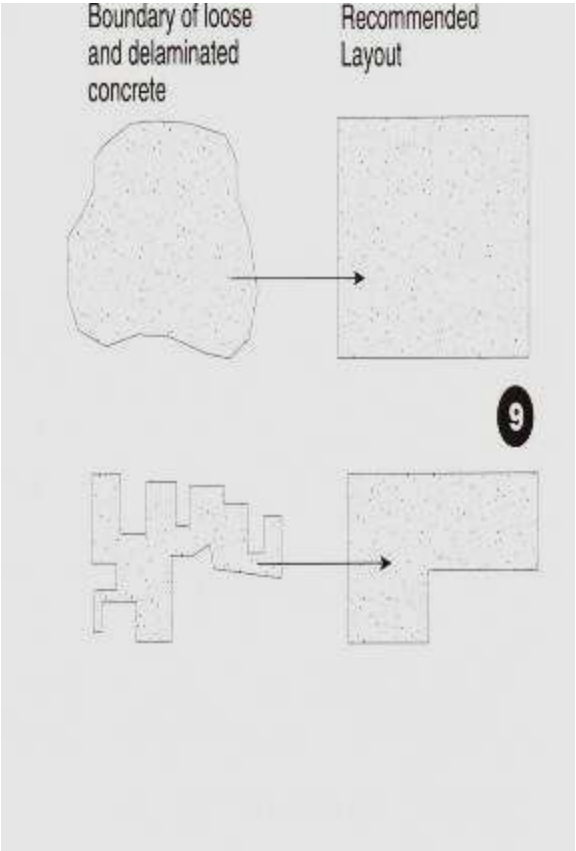
Surface Preparation

- 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.



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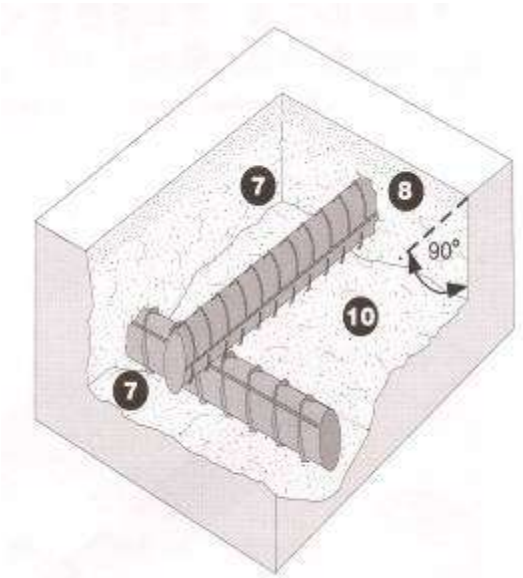
Surface Preparation

- 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.



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Steel Preparation

- Steel should be cleaned to a bright metal finish.

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Tools Required

- ½” 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.

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Mixing

- Add (SikaRepair SHA) to pail with Water or Latex R already inside, while mixing continuously.

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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.

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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.

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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.

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SR SHA - 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 SHA - 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 SHA cannot be extended with aggregate.

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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.

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SikaRepair SHA - Finish

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

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SikaRepair SHA - Finish

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

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Sponge Float Finish

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

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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.

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Sika Product Data Sheets can be obtained via:

www.sikaconstruction.com

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