

# **SikaRepair 223**

## **Application Instructions**



# SikaRepair 223

- ▲ One-component
- ▲ Early strength gaining
- ▲ Cementitious
- ▲ Patching material for vertical and overhead repair of concrete



# SikaRepair 223

## ▲ Where to use:

- On grade, above, and below grade on concrete and mortar.
- Repair material for vertical and overhead concrete surfaces.



## SikaRepair 223

### ▲ Packaging:

- SikaRepair 223 - 50 lb. multi-wall bag.
- SikaLatex R – 1 gal. plastic jug.

### ▲ Coverage:

- .41 cu. ft.
- 709 cu. inches.



## Surface Preparation

- ▲ **Cementitious Substrates:**
  - Should be clean and sound.
  - Remove contaminants and bond inhibiting materials from repaired area.
  - Obtain exposed/fractured aggregate surface ~1/8 to 1/4 inch profile (ICRI CSP 6 & above).
  - Substrate must be saturated surface dry (SSD) with no standing water.



# Surface Preparation

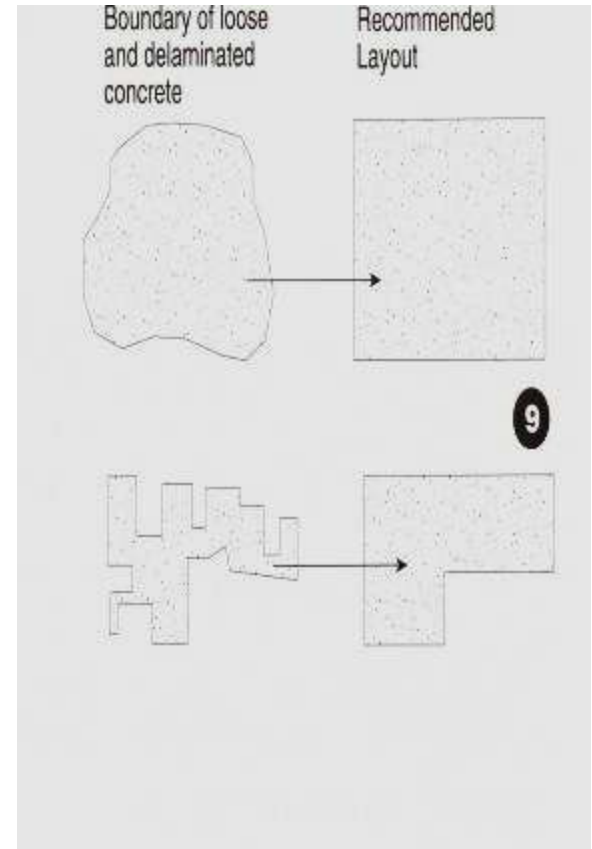
## ▲ Cementitious Substrates:

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



## Surface Preparation

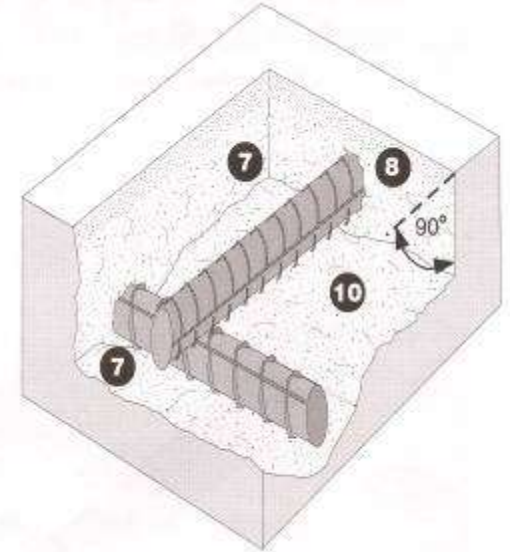
- ▲ Saw cut around perimeter of repair area to achieve a minimum 3/8" shoulder.
- ▲ Eliminates feathered edges giving a clean repair transition



## 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, 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 223 to pail with Water or Latex R already inside, while mixing continuously.



## Mixing

1. Water or SikaLatex 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.



## 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 223 - 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 223 - Application

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





## SR 223 - 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 and diluted Latex R
  - Min                    1/4 inch
  - Max                    1.5 inch
- ▲ Undiluted Latex R
  - Min                    1/8 inch
  - Max                    1.5 inch
- ▲ SikaRepair 223 cannot be extended with aggregate.



## SikaRepair 223 Finish

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



## SikaRepair 223 - Finish

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



## SikaRepair 223 - 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 223

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.

