SikaRepair 223

Application Instructions

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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, $\frac{1}{2}''$ minimum for mortar only.

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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 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.
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.

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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.