SikaRepair 222

Application Instructions

Sika Corporation
SikaRepair 222

▲ One-component
▲ Early strength gaining
▲ Cementitious
▲ Patching material for horizontal repair of concrete.
SikaRepair 222

▲ Where to use:

• On, above, and below grade on concrete and mortar.

• Repair material for spalled horizontal concrete surfaces, walkways, ramps, steps, etc.
SikaRepair 222

▲ Packaging:
  • SikaRepair SHB - 50 lb. bag.
  • SikaLatex R – 1 gal. plastic jug.

▲ Coverage:
  • .42 cu. ft./bag
  • 726 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 ~1/8 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, 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 222 to pail with Water or Latex R already inside, while mixing continuously.
Mixing

1. Water or Latex R $\frac{3}{4}$ - 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 222 - 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 222 - Application

▲ Apply scrub coat to substrate, filling all pores and voids

▲ While scrub coat is wet, apply SikaRepair 222

▲ Press mortar behind rebar and make sure the material is consolidated and compacted fully.
SR 222 - 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
• Neat  $Min$ (1/4 inch)  $Max$ (1.0 inch)
• Extended  $Min$ (1.0 inch)  $Max$ (4.0 inch)

▲ Undiluted Latex R
• Neat  $Min$ (1/8 inch)  $Max$ (1.0 inch)
• Extended  $Min$ (1.0 inch)  $Max$ (4.0 inch)

▲ SikaRepair 222 can be extended with aggregate.
SikaRepair 222 - 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 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.