**Application Instructions** 



- ▲ Two-component, polymer-modified, portland cement based.
- Fast-setting, screed mortar.
- Performance repair mortar for horizontal repairs and form pour/pump vertical and overhead applications.
- ▲ Offers the additional benefit of FerroGard 901- A penetrating corrosion inhibitor.



#### Where to use:

- On Grade, above, and below grade on concrete and mortar.
- On horizontal, vertical and overhead surfaces.
- As a structural repair material for:
  - Parking facilities
  - Industrial plants
  - Water/waste water treatment facilities
  - Walkways, bridges, tunnels, dams, etc.
- Free-flowing repair mortor for hard-to-reach areas.
- Filler for voids and cavities.



### ▲ Packaging:

- "A" Comp: 1 gal Jug of Dispersion.
- "B" Comp: 61.5 lb Multi-wall bag.

### ▲ Coverage:

- .51 cu. ft / unit.
- 864 cu. inches per unit.





#### ▲ Cementitious Substrates:

- Should be clean and sound.
- Remove contaminants and bond inhibiting materials from repaired area.
- Obtain exposed/fractured aggregate surface ~1/16 to 1/2 inch profile (ICRI CSP 6 & above).
- Substrate must be saturated surface dry (SSD) with no standing water.



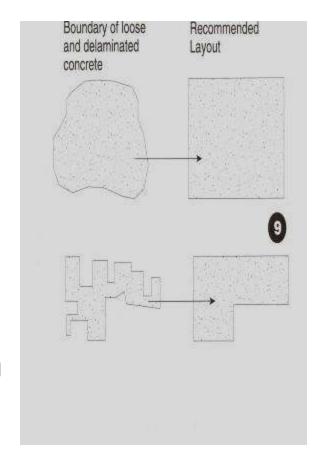
#### ▲ Cementitious Substrates:

 Surface should be cleaned and roughened to create a profile.





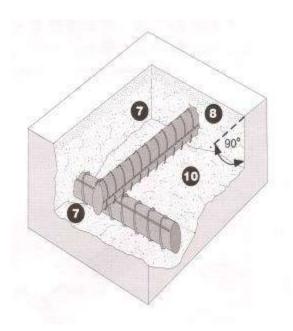
- ▲ Saw cut around perimeter or repair area to achieve a minimum 3/8" shoulder.
- ▲ This will eliminate feather edging the product and give a clean transition for the repair.





#### 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





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- Pour approximately 7/8 "A" Component into clean pail.
- ▲ Leave approximately 1" of "A" Component in jug.





Add "B" (powder)
Component to pail
with "A" already
inside, while mixing
continuously.





- Dispersion ¾ -1 gallon of dispersion/Bag.
- 2. Start with adding liquid to the mixing container.
- 3. Slowly add powder.
- 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 after 1.5 minutes to scrape down the sides to insure all material is fully mixed.
- Add additional "A"Comp. liquid for desired consistency.



- 3. Most cases you will have liquid left.
- 4. Thorough mixing and proper proportioning is necessary.

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## ST 111 PLUS 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.



## ST 111 PLUS Application

- Apply SikaTop repair mortar to patch.
- Press mortar behind rebar and make sure the material is consolidated and compacted fully.
- ▲ For flow able material, above is not done if pumped or formed and poured







## ST 111 PLUS Application

- Complete filling patch area.
- Work mortar from the center of the patch to the outside.







### Min / Max application thickness

Neat

Min 1/2 inch

Max
 1.0 inch

Extended

Min 1.0 inch

Max 6.0 inch



## SikaTop 111 PLUS Finish

- After filling patch section, allow mortar or concrete to set to desired stiffness.
- ▲ Then finish with steel, wood, or sponge float to attain a smooth surface, or broom or burlap-drag for a rough finish.



## Sikatop 111 PLUS Finish

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





## SikaTop 111 PLUS 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.









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## SikaTop 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.

