



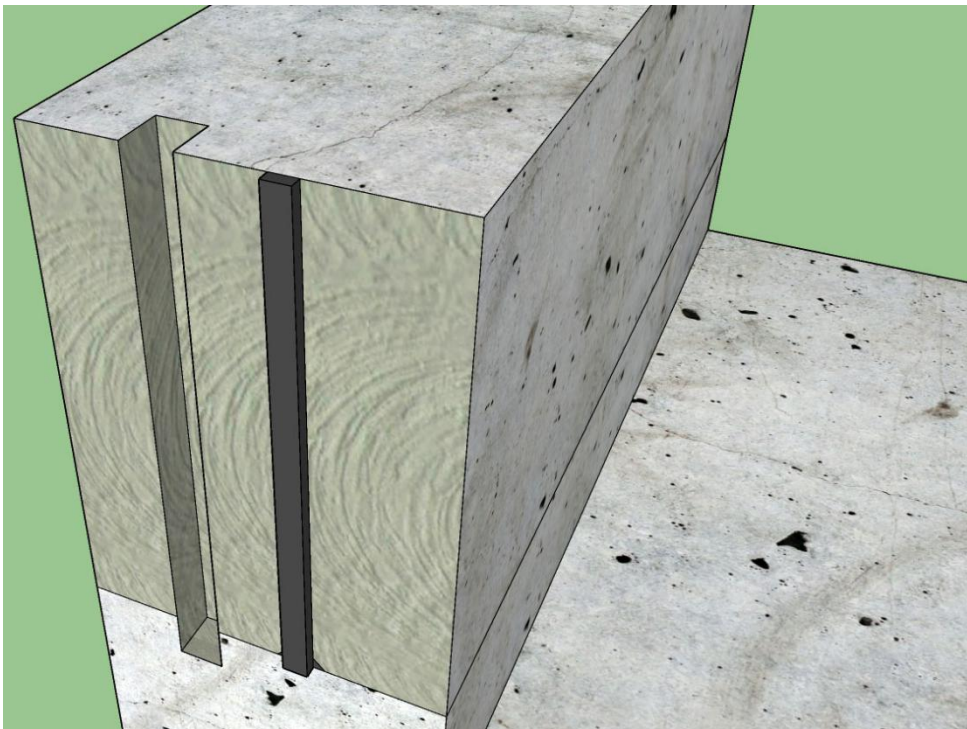
Internal Day Joint Instructions Design 1

Concrete Aqua Guard Day Joint Instructions Design 1 is specifically focused on the design of slab and wall joints and is considered an important part of the preparation process for all Crystal Admix HD applications.

Material Needs

- Crystal Slurry
- Crystal Grout (or Grout F)
- Waterbar
- Wooden bar
- Clean mixing pails
- Clean mixing tools
- Clean water for mixing
- 2.5 cm margin trowel
- Natural bristle concrete brush
- Safety goggles
- Rubber Gloves
- Measuring tools (by volume)
- Water sprayer

Overview of Design

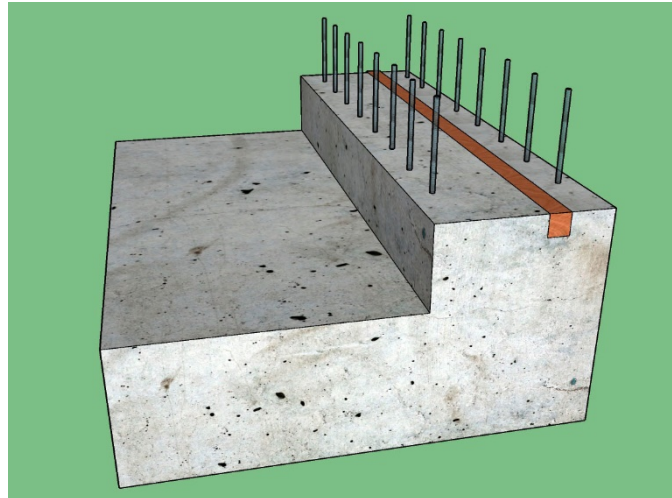




Step 1 – Place wooden rebate

Place a wooden rebate (30mm x 25mm x required length) placed behind the reinforcing steel on the water entry side of the joint.

The channel should be placed at approximately 60mm (depending on reinforcing steel placement) of the concrete edge that will be subject to water penetration.

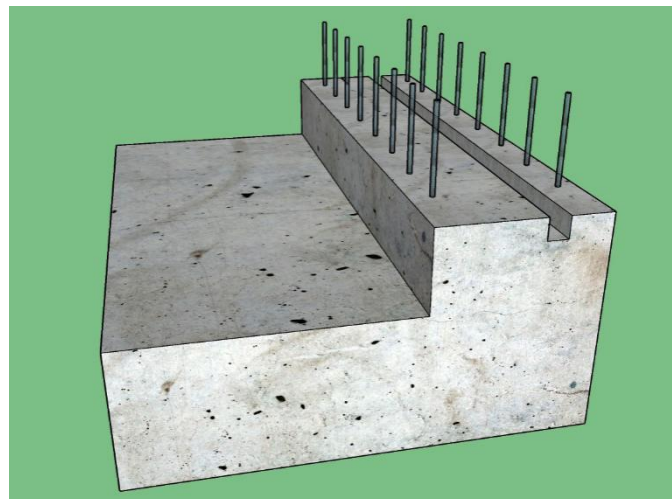


Step 2 – Remove wooden rebate and clean the area and saturate well

Remove the rebate and scabble or power wash the entire area.

Clean well removing any loose concrete and spray thoroughly with water the entire area.

Insure that the concrete area is thoroughly soaked not just dampened.

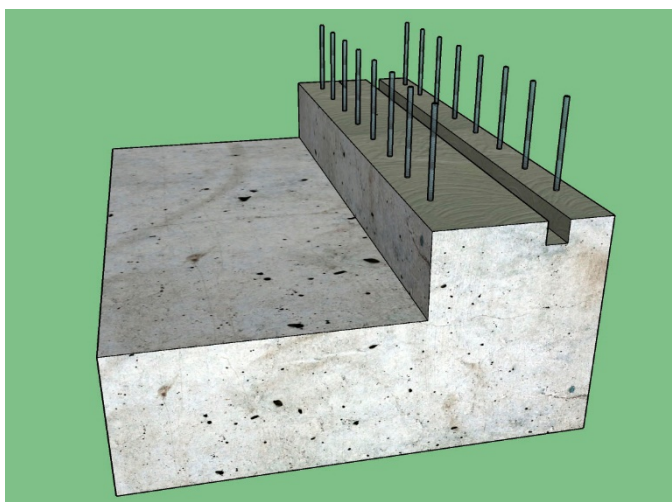


Step 3 – Apply Crystal Slurry

After removing all pooled water, as Crystal Slurry requires the concrete at an SSD condition (Saturated Surface Dry), meaning the concrete is to be very wet inside, but the surface is not to have pooled water.

Use a brush application to apply Crystal Slurry to the full surface including within the cavity.

Mix Crystal Slurry to a brushable slurry consistency using **5 parts powder to 2 parts clean water**.



Using a natural bristle concrete brush coat the entire surface area of the cavity. Allow the application to dry for 1 to 2 hours.

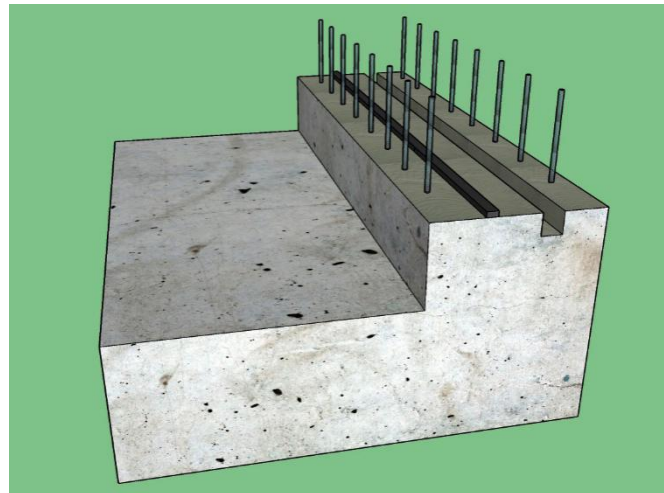


Step 4 – Apply the Waterbar

Apply the waterbar between the rebar and close to the recess area over the Crystal Slurry application.

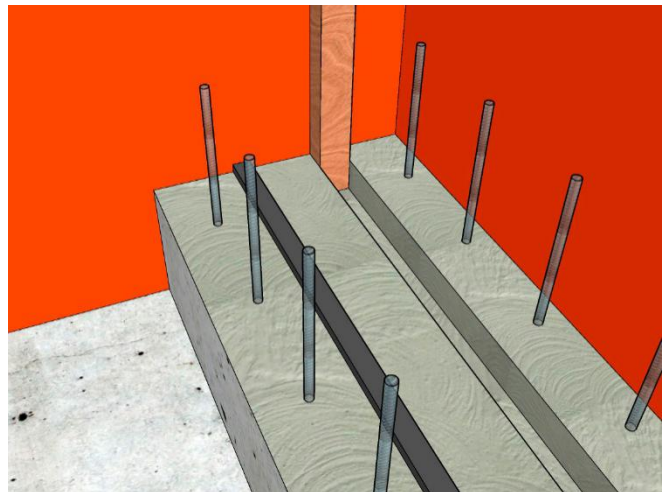
Insure the waterbar is properly placed in the centre of wall or kicker according to instruction and secured into position.

Insure that waterbar is placed to have at least 75mm of cover.



Step 5 – Place the Vertical Recess with the Formwork

Place the formwork and run a 30mm x 25mm bar from the recess in the kicker to the top of the form.

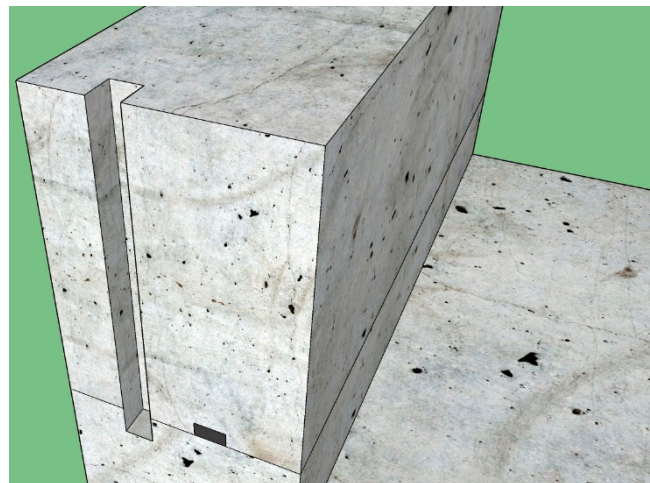


Step 6 – Remove wooden bar and clean the area and saturate well

Clean the chase well removing any loose concrete and spray thoroughly with water the entire area.

Insure that the concrete repair area is thoroughly soaked not just dampened.

Remove all pooled water as Concrete Aqua Guard products require the concrete at an SSD condition (Saturated Surface Dry), meaning the concrete is to be very wet inside, but the surface is not to have pooled water.

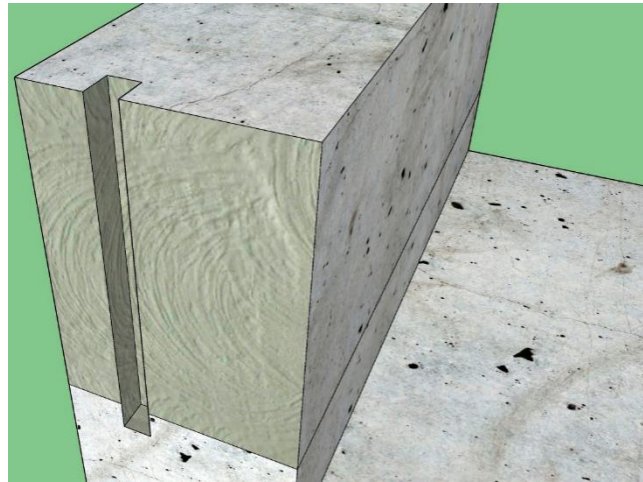




Step 7 – Apply Crystal Slurry to the Vertical Joint Area

Crystal Slurry requires the concrete at an SSD condition (Saturated Surface Dry), meaning the concrete is to be very wet inside, but the surface is not to have pooled water.

Use a brush application to apply Crystal Slurry to the full surface including within the recess.

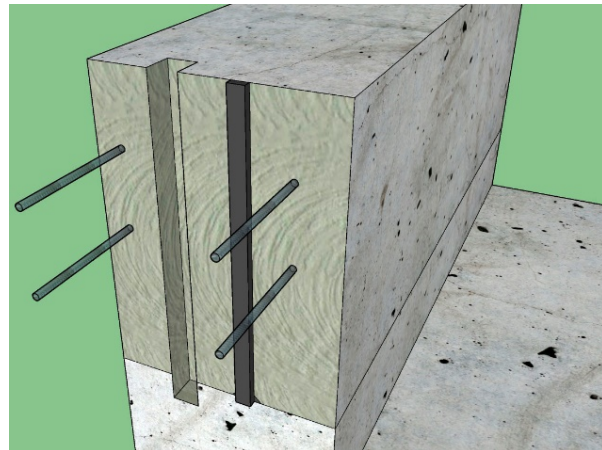
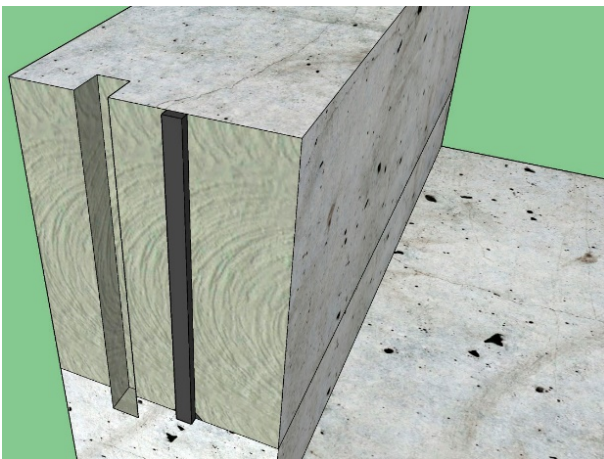


Mix Crystal Slurry to a brushable slurry consistency using **5 parts powder to 2 parts clean water**.

Using a natural bristle concrete brush coat the entire surface area of the cavity. Allow the application to dry for 1 to 2 hours.

Step 8 – Apply Waterbar to the Vertical Area

Apply the waterbar between the rebar and close to the recess area over the Crystal Slurry application.



Insure the waterbar is properly placed in the centre of wall or kicker according to instruction and secured into position and has at least 75 mm of cover.

Notes: Do not acid etch

If surface is too smooth, it must be roughened slightly for better adhesion.