



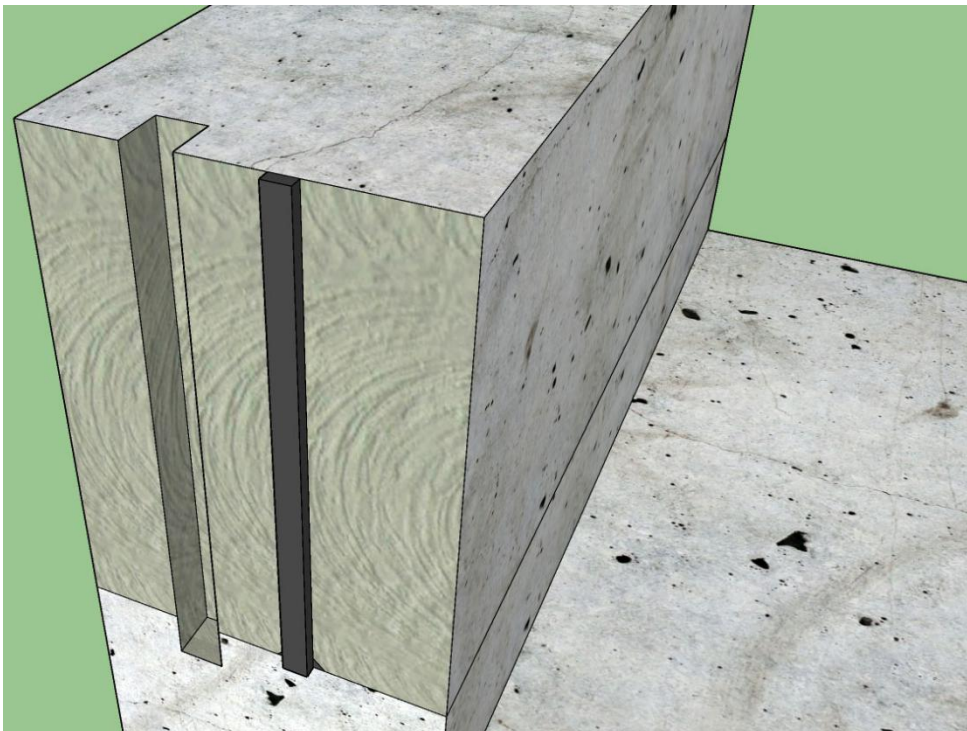
## Internal Day Joint Instructions Design 2

Concrete Aqua Guard Day Joint Instructions Design 2 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

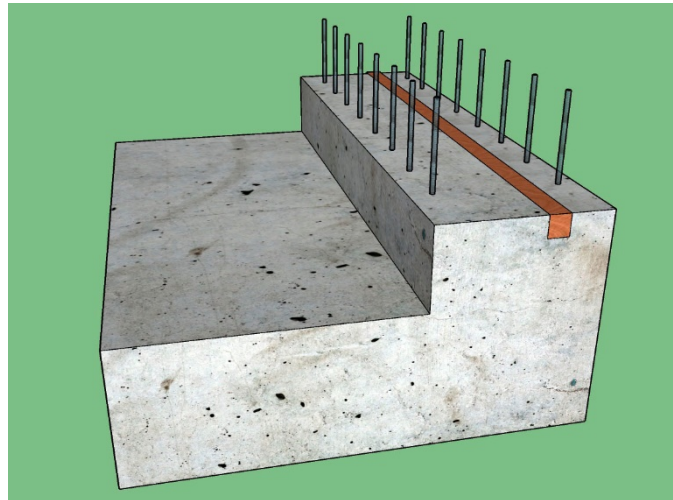




### Step 1 – Place wooden rebate

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.

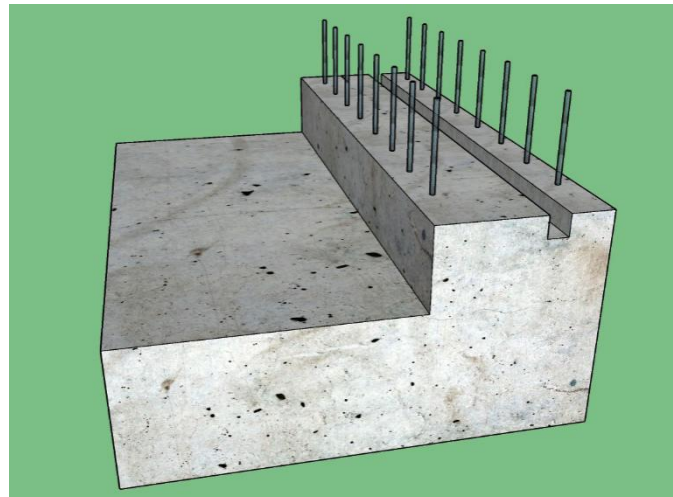


### Step 2 – Remove wooden rebate and clean the area and saturate well

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 / Place Crystal Grout F (or Crystal Grout)

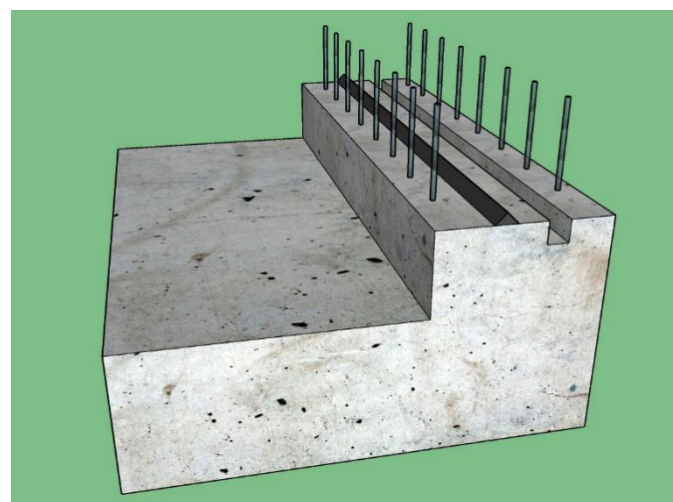
Remove all pooled water.

Apply Crystal Grout F (or Crystal Grout) mixed 4 parts powder to 1 part water in a triangular line in the center between the recess and the reinforcing steel.

The Crystal Grout F should be a dry putty consistency.

A triangular trowel can be used.

After the dry pack application has set, soak generously with water.





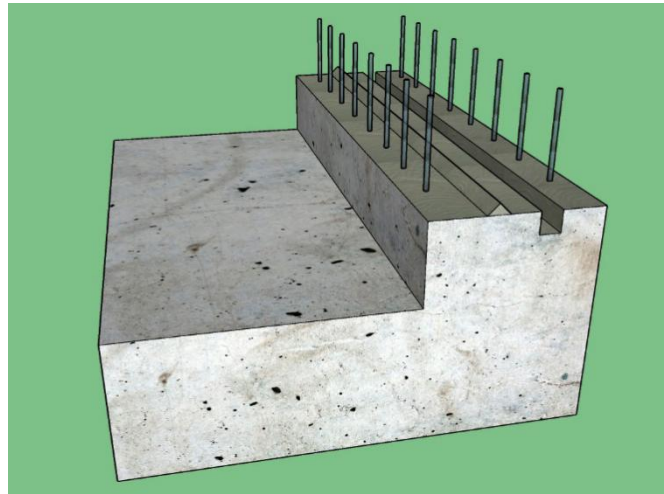
## Step 4 – Apply Crystal Slurry

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 and over the dry pack triangle.

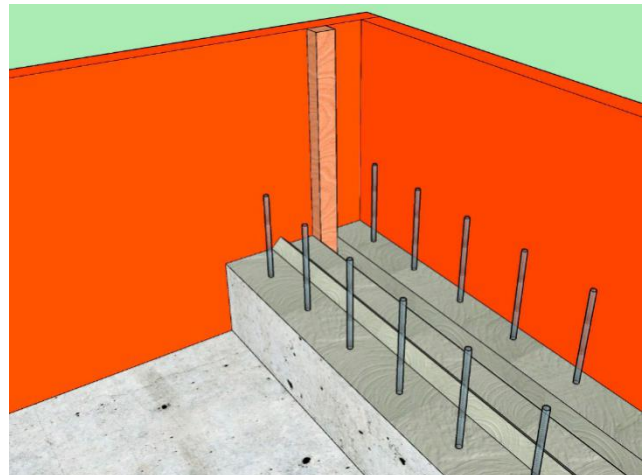
Mix Crystal Slurry to a brushable slurry consistency using **5 parts powder to 2 parts clean water**.

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 5 – Place the Vertical Recess with the Formwork

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

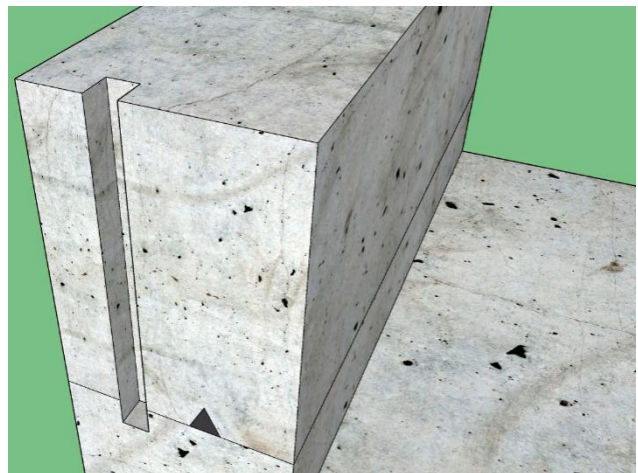


## Step 6 – Remove wooden bar and clean the area and saturate well

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.





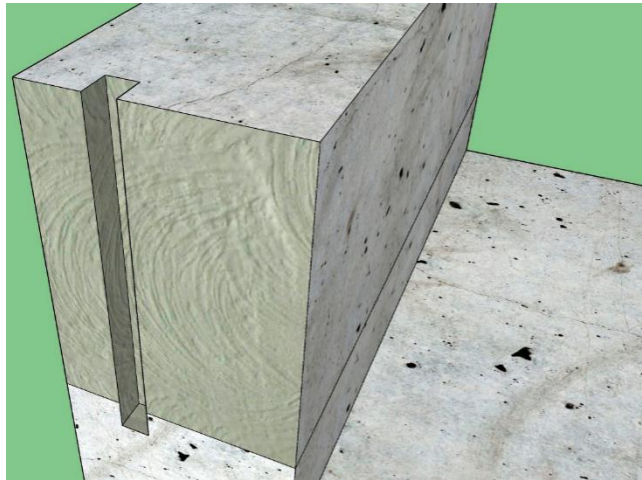


## Step 7 – Apply Crystal Slurry to the Vertical Joint Area

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.

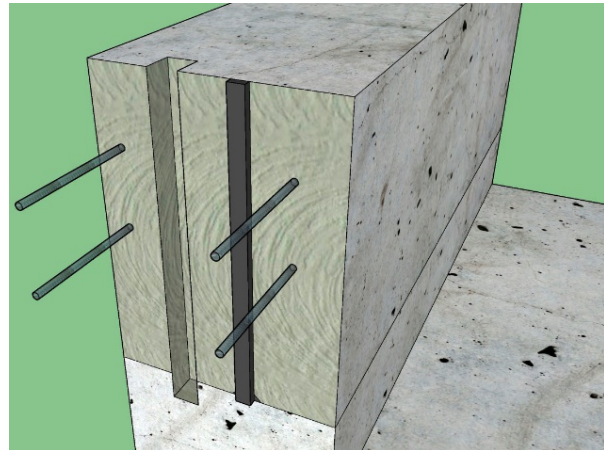
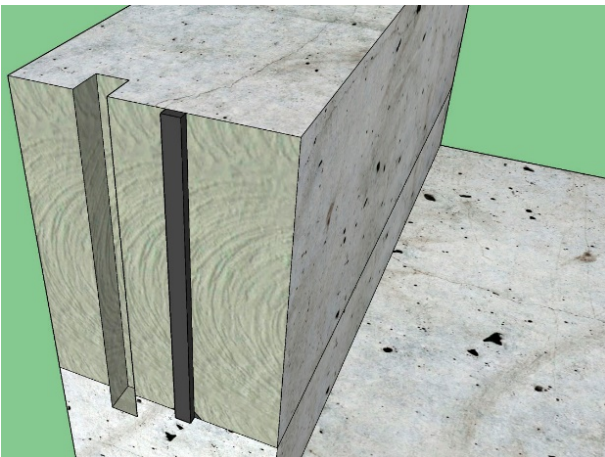
Mix Crystal Slurry to a brushable slurry consistency using **5 parts powder to 2 parts clean water**.



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 the recess area over the Crystal Slurry application.



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

**Notes:** Do not acid etch

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