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Farrell Equipment & Supply Co., Inc.

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The Waterfall Proline™ Mold

Step 1: Build a 2x4 square form around the waterfall mold in order to protect the edges from overfilling with concrete and bowing the sides out. (as seen in Figure 1.1)


Figure 1.1

Step 2: Once the concrete is mixed and colored, pour it in the Waterfall mold from Proline Stamps™.


Figure 2.1

Step 3: Spread out the concrete with a mag float. Make sure that there is no concrete between the form and the mold. This will cause the mold to flex and be deformed.


Figure 3.1

Step 4: Run a screed board or a straight 2x4 board of equal weight across the mold to get rid of excess concrete. This is to get the concrete level with the mold to eliminate having bumps and ridges in the end product.


Figure 4.1

Step 5: Next, you must vibrate the concrete. Freshly placed concrete can contain 5 to 20 percent entrapped air. Entrapped air bubbles can cause pockets to form bug holes, ultimately causing the finished product to have a less desirable look and reducing the concrete's density. Concrete with a high percentage of entrapped air will likely have a reduced strength and increased permeability, which will greatly reduce the durability of the concrete product once in service. (Remember it is a waterfall)

Step 6: After vibrating the concrete, mag float to smooth out the concrete.


Figure 5.1


Figure 6.1

Step 7: Once the concrete is smoothed out, place the rebar in areas that need to be reinforced. Once it is placed, start to lightly tap the rebar in the concrete with the end of the mag float. Do not hit it hard, the rebar will hit the bottom of the mold and not be in the center of the concrete, this provides the best results. Remember the waterfall is being poured face down. Placing the rebar too close to the bottom of the form can cause the rebar to penetrate the face in the finished product.


Figure 8.1

Step 8: Once the rebar is in near the center of the concrete, smooth out the concrete again with a mag float as seen in Figure 8.1

Step 9: Walk away, let the concrete cure & dry. Make sure the bottom looks smooth and level for the best results.


Figure 9.4

Step 10: Once the concrete has a chance to cure and dry, unscrew the 2x4 form from the outside and start to peel off the mold from the concrete. Be careful and start from the edges and work to the center of the piece. (See Figure 9.4)

INFORMATION: The head and base piece forming instructions will be available soon. For more information on how to form up these parts of the waterfall, please call Farrell Equipment at (715) 835-4334.

Step 11: Once the waterfall main face is similar to figure 9.4, start to take the head piece out of its form and form liner as shown in figure 10.1. When finished with the head, repeat the same process for the base of the waterfall as shown in figure 10.3.

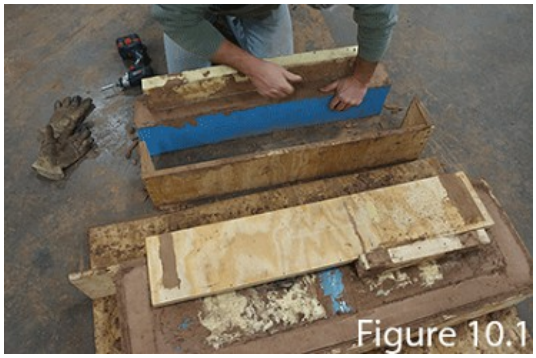


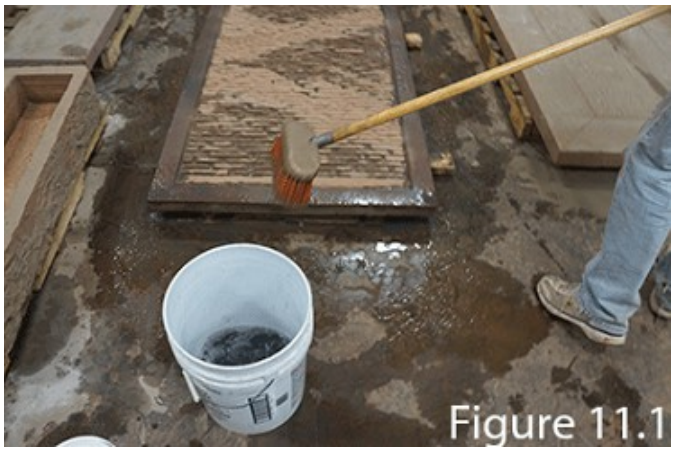
Figure 10.1


Figure 10.3

Make sure you have the pieces: base and base top cap from figure A, the waterfall main piece from figure B and the waterfall head piece from figure C, before moving ahead as these pieces are needed to make the entire project work

Figure A


Figure B



Step 12: To use EZ-Tique: Measure and mix with water, agitate and apply with a soft bristle brush or Proline brush (recommended) and let dry thoroughly. It's that easy! EZ-Tique is a great way to add color and definition to your decorative concrete. (For further EZ-Tique direction, see EZ-Tique sheet available at any of the Farrell stores or ask any Farrell Equipment Sales person)

Step 13: First move the pieces into a well vented area to apply sealer. Then apply sealer with a pump sprayer and back-roll to smooth out and excess sealer. A small paint brush can be used to apply sealer in smaller cracks or joints. Let the pieces dry before assembling.

Step 14: During this step; a small water pump, 1/2" hoses, pvc pipes, elbows and joints will be required to make the water travel from the base to the top and run over the waterfall's face. Assemble the pvc pipes, make sure to drill small holes in the pvc pipes for the water as shown in figure 13.4, with a T joint (shown in figure 13.2). Then connect to the elbow at the bottom of the waterfall face where the small pump will be as shown in Figure 13.3.

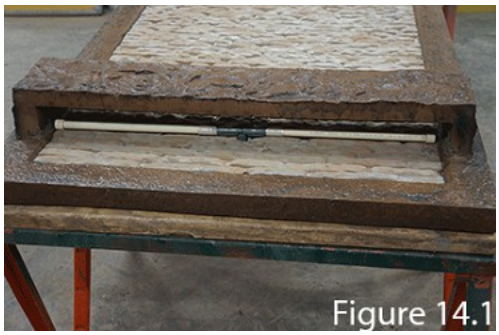


Figure 14.1


Figure 14.2


Figure 14.3


Figure 14.4

Step 15: Connect the head to the waterfall main piece. Drill 4 holes, 2 on each side, using a Hammer Drill with HAMMER ACTION OFF. Make sure the holes line up so that the head piece fits properly. Connect the pieces together with a concrete Tapper Anchor. A few more methods to connect the two pieces together are using Epoxy Anchors or Cast-N-Place Anchors. **(We at Farrell Equipment are in the process of testing other methods of anchoring the header to the waterfall face. Refer back often for changes made to these instructions for the latest version.) ***Note: If the corner of the head piece ever cracks or breaks, Farrell Equipment has the proper materials to repair the damaged pieces.

Step 16: Use W. R. Meadows Air Shield (Peel & Stick Waterproofing) to waterproof the base of the waterfall. Roll out as much material as is needed. Peel off the brown paper and stick it to interior of the base of the waterfall, coating the bottom and sides. Cut another piece for the smaller 2 sides, making sure it overlaps the corners to form a perfect seal.

Image Coming Soon

Step 17: Once the head is secured to the main waterfall piece, pick it up and place it in the back of the base. Make sure you have adequate support as the face piece is heavy and will tip over without any support. When secured and in place, hook up the pump from the base to the bottom elbow, (in the base) pour in the water and turn on the pump. The pump must be able to carry the water up 6'. Dump rocks in the base, covering the pump. Step back and enjoy your brand new waterfall.