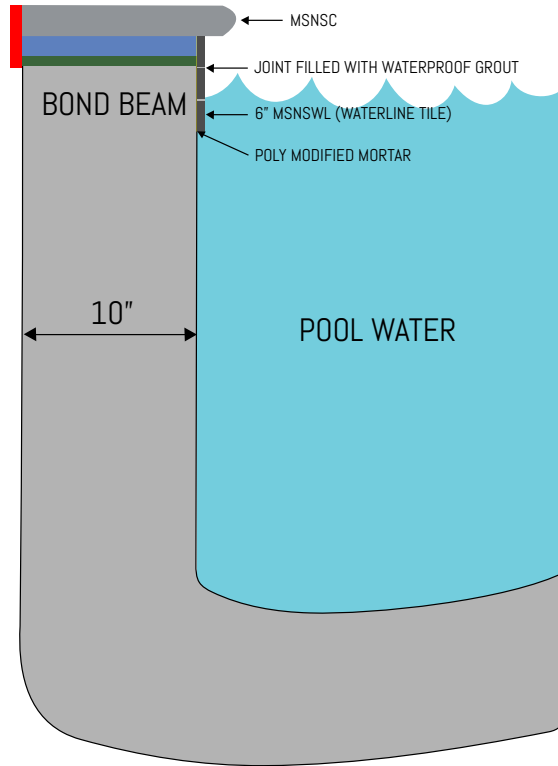


POOL AND SPA COPING
MSNSC - Marmiro Stones Natural Stone Coping – Gunite Pool



* NOTE 1/8" - 1/4" MORTAR JOINT BETWEEN COPING PIECES



Epoxy-mesh backed stone is used to increase the strength of stone due to natural veining.

Laticrete® LATIPOXY® 300 Adhesive is required for long term adhesion of stone to concrete wall.



Installation

1. Surface preparation: Make sure that the pool edge is clean, dry, and free from any debris, dirt, or dust. You can use a vacuum cleaner or a broom to remove any loose particles.
2. Mixing the mortar: Follow the manufacturer's instructions to mix the Laticrete® MULTIMAX™ mortar. Use the recommended amount of water and mix the mortar until it has a smooth consistency. It is essential to mix the mortar properly to ensure good adhesion.
3. If bond beam is uneven it is highly recommended to apply an even layer of thin set to ensure a level surface is created. NOTE: If coping is installed on an uneven surface, it could cause stone to crack.
4. Applying the mortar: Apply a minimum ½" – ¾" maximum Laticrete® MULTIMAX™ mortar to the pool edge. Make sure that the layer is even and has a consistent thickness. Don't apply too much mortar at once, as it can cause the stone to shift.
5. Back butter by applying thin set on back of MSNSC piece evenly to entire area that will be adhered to mortar bed. This will increase your bond strength.
6. Installing the natural stone: Press the natural stone pool coping into the mortar, starting at one end of the pool edge and working your way across. Use a level to ensure that the stones are even and aligned correctly. If necessary, use a rubber mallet to gently tap the stones into place. It is best practice to use string lines on top to maintain consistent height and behind coping to keep consistent straight lines.
 - A. A good sign enough mortar was used, you should see some mortar push out behind coping and in between joints.
7. Grouting: Once the mortar has cured, apply Laticrete® PERMACOLOR® grout between the MSNSC. Follow the manufacturer's instructions to mix the grout and apply it using a grout float. Be sure to remove any excess grout before it dries.
 - A. Before starting to grout, remove spacers and debris in grout joints and remove dust and dirt using a wet sponge. Do not leave water standing in joints.
 - B. Mixing: Use approximately 2.4 – 2.6 quarts (2.3 L – 2.5 L) of clean potable water for 25 lbs (11.3 kg) of PERMACOLOR® Grout. Place water in a clean mixing container and add grout powder. Mix with a slow speed drill mixer (300 rpm) for 1 minute. Wait for 5 minutes and remix with drill for 1 minute.
 - C. Apply: Using a grout bag, apply grout to joints filing completely. Use a 3/8" slicker trowel or jointing tool to give a concave look.
8. Cleaning: Begin initial cleaning by lightly wiping down entire area to be cleaned with a damp sponge. Wash with a damp sponge (not wet). Work diagonally to the joints. Allow to dry 3 hours at 70°F (warmer days will have a faster dry time). For second cleaning, use a damp sponge or dry cloth to remove remaining grout haze.
9. Expansion Joint: This is a REQUIRED step. Install a foam backer rod behind coping and pool deck material. Example: if joint is ¼" use a 3/8" foam backer rod to ensure tight fit. It is ok to lay backer rod on top of each other as long as you have at least 3/8" for caulk.
 - A. Once backer rod is installed, apply self-leveling caulk on top of backer rod to fill up expansion joint. Choose correct color for caulk that is aesthetically pleasing with stone.
 - B. NOTE: Mortar or glue is not an acceptable material for an expansion joint.