

# Working with Tiles

About tiles: WELDBOND is exceptional in creating mosaic tile projects, or for tiling walls, floors, and countertops. WELDBOND offers the cleanest, easiest method to adhere almost any kind of tile to almost any kind of surface. Great for ceramic, porcelain, granite, marble, clay (or Mexican), quartz, slate, glass, stone or composite materials like Corian®. Tiles can be laid on flat or uneven surfaces (for uneven, refer to "General Adhesive Mix").

WELDBOND offers an incredibly strong bond and allows much more positioning time.

Directions: All surfaces should be clean and dry. First, prime all porous surfaces you're working with, using the sealing mixture - 5 parts water to 1 part WELDBOND. Allow to dry 1 hr. Then coat tiles with concentrated WELDBOND and place in position. Use tape to hold in place for minimum of 1 hr. WELDBOND will allow up to 15 min. positioning time. Allow to dry 24 hrs. prior to grouting.

For faster bonding or working on vertical surfaces: To prevent tiles from sliding around, try this method: Seal porous surface with 5 parts water to 1 part WELDBOND mixture. Allow to dry 1 hr. Then coat both surfaces generously with WELDBOND, full strength allow to dry until WELDBOND is completely clear. Now reactivate WELDBOND (using Isopropyl/rubbing alcohol) by brushing it on both surfaces. Then bring both surfaces together and into position with slight turning motion and pressure if possible. Bond should be near instant but use tape to hold in place for at least 1 hr. This method will also dry crystal clear much faster (great for glasswork).

Test this method first to ensure you are getting the bond strength required for your project before starting.

As a general adhesive mix: For bonding any rough, uneven surface, mix together 1 part WELDBOND, 1 part water and 4 to 5 parts filler (plaster, tile grout, mortar mix, sand-cement mix). Apply to uneven surface and begin tiling. This adhesive mix will dry faster than just concentrated Weldbond.



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# For Stained Glass, Clear Glass and Tiles

With WELDBOND it's easy! First, seal surface using a mixture of 1 part WELDBOND 5 parts water. Let dry 1 hour. Apply a coat of concentrated WELDBOND. Allow surfaces to become tacky before bringing together, apply 1 min. When bonding glass, use sparingly if you require crystal-clear bond. Lightly clamp or tape material in position until fully cured (min. 24 hours or more depending on room temperature and humidity). Any whiteness indicates the curing process is not complete. A crystal clear dry can take up to 30 days.

For faster clear drying: (1) Seal all pieces of glass with the mixture (5 parts water to 1 part WELDBOND). For larger pieces seal only the side that you wish to adhere to. Let dry approx. 1 hour. (Small mosaic glass pieces can be sealed all at once by dipping a strainer full of glass pieces into the sealing mixture. Separate and dry pieces on wax paper). (2) Use the glue full strength only around the outside edges or the perimeter of each glass piece to be bonded. (Do not coat the middle or center of the glass) This allows the air to evaporate water from the adhesive, needed to turn WELDBOND crystal clear.

The quickest "clear" dry method... Great for vertical surfaces / or fast hold. Also use this method to prevent pieces sliding on vertical surfaces. Seal the two surfaces with the 5:1 sealing mixture. Allow to dry. Completely coat both sealed surfaces lightly with concentrated WELDBOND. Keep separate and allow to dry clear. Now reactivate WELDBOND by wiping or brushing on Isopropyl Alcohol (rubbing alcohol) and bring pieces together immediately (rub back and forth over one another with pressure if possible, while positioning). This should dry clear in a few hours. Before doing your projects, do test pieces first, to make sure you are getting the strength you desire.



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