



THERMBOND[®] PROCEDURES TO REPACK FORMULA 12-W FOR HIGH EROSION SERVICE

Preparation

1. Use a Hobart or hand operated heavy duty drill mixer.
2. Check that equipment is clean and in proper working condition.
3. The refractory surface being repaired must be clean and solid.

Mixing

1. Only mix as much material as you can place immediately.
2. If mixing less than full units of any Thermbond[®] Refractory, be sure to dry-mix the dry component and agitate the Formula Activator before mixing any material, as the contents may have settled during shipping and some segregation may have occurred. The correct way to determine the amount of the pre-mixed dry formulation to that of the Formula Activator is:
 1. Determine the weight of the pre-mixed dry formulation.
 2. Multiply the weight of the dry formulation by the WET TO DRY RATIO. For Formula 12-W it is between 10%-10.5%.
 3. This number is the amount, by weight, of Formula Activator required.
3. Pour enough pre-measured Formula Activator into the mixing bowl for the entire batch to be mixed.
4. Pour all the dry material into the liquid in the mixer bowl.
5. Immediately turn on the mixer at low speed. Let the mixer run until the material is mixed homogeneous and no dry material is left at the bottom of the bowl. This can take approximately 1-2 minutes.
6. Discharge the bowl quickly and distribute the material in multiple portions. This allows a longer working time of the individual portions.



Placing

1. Prior to repacking we recommend testing the surface of the existing material with a small amount of Formula Activator on a representative place to see whether there is a chemical reaction.
2. If a reaction occurs such as bubbling/foaming we recommend applying small amounts of Formula Activator to the surface until the reaction has stopped. Then allow the surface to dry prior to repacking with Thermbond Formula 12-W.
3. In preparation for repacking, dampen a sponge using Formula Activator and apply by slightly pressing the sponge on the surface. We do not recommend pre-dampening by spraying or brushing uncontrolled large amounts of liquid on the surface!
4. For placing the Formula 12-W, use the slightly dampened sponge and press the material into the hex mesh. Work a thin first layer into the existing refractory. Once the thin layer has been applied, additional layers of Formula 12-W material can be added.

Curing

No curing is required after setting.

Please contact Unifrax for:

Specific information regarding your application.

Extreme weather conditions, below 40° F (5° C) or above 90° F (32° C).

For more information please consult our complete [Thermbond Installation Guide](#).

