

NEW & IMPROVED Formula

Up to
50% Increase
in Open Time*

1250G & MBP **CLIP-ON TROWELS INCLUDED!**

*When applied between 65°-85° F & maximum relative humidity of 70%



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Bona R851® & Gypsum-Based Concrete



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Bona R851® & Gypsum-Based Concrete

It's known that contractors are told to use a primer when gluing over gypsum-based concrete such as Gyp-Crete®. However, there can be compatibility issues with all the various primers on the market.



Our recommendation for gypsum-based concrete floors:

1. The substrate must be dry
2. Abrade gypsum-based concrete substrate using a Bona Double-Sided Sanding Disc at 60-grit or higher
3. Vacuum and apply Bona R851®, then install the flooring

The advantage to this recommendation:

- **Less cost** - no primer is needed
- **Less time** - no need to wait for primer to dry

Why is it recommended to abrade the floor instead of using a primer?

- When gypsum-based concrete such as Gyp-Crete® is poured, the gypsum settles to the bottom and the more soluble ingredients—which create adhesion issues—tend to float to the top. Abrading the floor is an effective method to remove the more soluble ingredients, exposing more gypsum at the surface.
- Gypsum-based concrete substrates tend to be very dusty, even after thorough vacuuming. Primers are typically recommended because many types of adhesives do not have the ability to “wet-out”, due to dust on the surface, thereby creating an adhesion issue. Bona R851® is the exception! Through extensive testing, Bona's R&D team has concluded that abrasion and thorough vacuuming prior to applying Bona R851 is all you'll ever need, no primer necessary!



What psi rating is needed for installing hardwood over gypsum-based concrete?

2000 psi for engineered flooring and 2500 psi for solid hardwood is the recommendation from most flooring manufacturers. NWFA recommends a minimum of 3000 psi for engineered flooring and solid hardwood.



Can I apply a moisture barrier after abrading Gyp-Crete® or other gypsum-based concretes if there are moisture concerns?

Yes - Bona® R540 is a one-component roll-on moisture membrane specially designed to mitigate vapor transmission on absorbent and non-absorbent subfloors. The polyurethane reactive primer is compatible with the entire Bona Adhesive System.

Is this information the same for a gypsum-based concrete floor that has a radiant heat system underneath it?

Yes - this would apply—just make sure they use/cycle the radiant heat system prior to installation.

How do I know if the gypsum-based concrete is dry?

According to the manufacturer, Maxxon, a 3/4" thick pour is fully dry and ready for floor installation within 5 to 7 days, when properly ventilated and temperatures are maintained above 50° F.

Can I use a moisture meter to test if the gypsum-based concrete is dry?

Yes - when a moisture meter is required, use a pin-invasive type such as a Delmhorst® model G-79 or Delmhorst BD2100 (follow the Delmhorst directions). Keep in mind, these meters measure only what the pins contact. For thicker pours you will need to drill pilot holes and use longer pins to obtain an accurate measurement.