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CRETESEAL CS2000 AND BOND BREAKER COMPATIBILITY TECHNICAL BULLETIN

One of the most commonly asked questions about concrete additives, coatings, and treatments is whether or not they are compatible with each other/other products. Some of these questions reflect a keen, and genuine, concern about potential incompatibility issues. Sometimes the questions are the result of a manufacturer of one product suggesting the potential for incompatibility with another manufacturer's product. Those suggestions are rarely, if ever, substantiated with scientific testing results, but instead seem more often to be an anecdotal attempt to promote use of their own competitive offering and/or an attempt at evading potential risk/warranty liability. Over decades of use, the Creteseal® CS2000™ Spray Apply System has proven to be compatible with most concrete additives, coatings and treatments.

Specific to bond breakers, regardless of products additionally installed, OBEX recommends carefully following ACI 551.1R-14: Guide to Tilt-Up Concrete Construction. Not unlike other installation practices, it is critical that installers follow all bond breaker manufacturer's written literature and specifications including, but not limited to: recommendations for admixtures, installation procedures, and testing after bond breaker application to evaluate adequate coverage. OBEX recommends a minimum 48-hour cure time between the application of the CS2000™ Spray Apply System, followed by a mechanical cleaning of the concrete surface (no shot-blasting or grinding) while then allowing the concrete to cure/dry for an additional - minimum of - 24 hours. Typically, bond breaker manufacturers require a specific cleaning method be employed prior to application of their product when installing over existing, or previously cured, concrete. Please consult and follow all relevant manufacturer's bond breaker product literature and data sheets throughout the installation process.

To ensure a successful finished resilient flooring installation, OBEX requires that any residual bond breaker material be completely removed following the tilt-up of bond breaker cast and poured concrete panels. Residual bond breaker on a slab's surface can significantly undermine the adhesive bond between the finished resilient flooring system and the concrete slab. **Failure to clean and prepare a concrete slab in accordance with the bond breaker manufacturer's instructions and/or failure to follow ASTM F710 guidelines regarding preparation of a concrete slab to receive finished resilient flooring may lead to adhesive and/or flooring failure.**

In summary, OBEX confirms that bond breakers are compatible with the CS2000™ Spray Apply System when employing the following guidelines, and referring to CS2000™ Technical Data Sheets (TDS), during installation:

1. Apply the CS2000™ Spray Apply System in accordance with the TDS.
2. Allow the CS2000™ Spray Apply System to cure a minimum of 48 hours.
- 2(a) **Alternate:** If using the bond breaker as a 2-step product, allow the CS2000™ Spray Apply System to cure for 24 hours, or until the following morning, then apply the bond breaker as a cure coat.
3. **Prior to Casting Panels:** Clean and prepare the slab in accordance with bond breaker manufacturer's recommendations.
4. Allow 24 hours for the slab to dry.
5. Apply the bond breaker in accordance with manufacturer's instructions and complete all installation testing required by the manufacturer (i.e. water droplet test).
6. Cast and pour panels, allow appropriate concrete cure time and then tilt-up panels into position.



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7. Clean residual bond breaker from the slab surface employing the manufacturer's recommended cleaning product at the recommended application rates/dilution level. NOTE: Failure to properly complete this step and/or failure to comply with ASTM F710 may lead to adhesive/flooring failure.

CS2000™ Spray Apply System is a hardener/densifier moisture control system that is fully compatible with bond breaker products and tilt-up projects. Typical bond breaker manufacturers' slab criteria includes a clean, smooth, dense, and well cured slab prior to the bond breaker application and casting panels. A properly finished and CS2000™-treated slab meets this criteria. The key to having a successful tilt-up project is placing sufficient bond breaker material prior to pouring the casting panels, and verifying the slab has been rendered non-porous using the bond breaker manufacturer's recommended method in every location where panels are to be cast and tilted up.