

# K A U F M A N

PRODUCT  
INFORMATION

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## Recommended Field Procedures for Curing & Sealing Compounds

Kaufman Products' curing and sealing compounds are premium quality products, for use on both freshly poured and aged concrete. They comply with all applicable local, regional, and federal regulations, including the Environmental Protection Agency (EPA), the Ozone Transport Commission (OTC), and the Lake Michigan Air Directors Consortium (LADCO) where applicable. Using these products correctly will help to give concrete its best properties.

### Preparation

Prior to application of the compound, concrete slabs must be placed and finished in accordance with American Concrete Institute guidelines, such as ACI 302.1R: Guide for Concrete Floor & Slab Construction and/or ACI 207.1R: Mass Concrete. Concrete should be clean and free of form oil and other contaminants before application. If concrete is cleaned or rinsed in advance of application, allow to thoroughly dry for a minimum of 1-2 days.

### Product Application

Apply product to freshly placed concrete slabs immediately following the disappearance of the surface water sheen (or bleed water) after final finishing. Once the concrete has reached the cooling cycle, it is ready to be cured (surface temperature of between 50-86°F). Delayed application will result in the curing compound soaking into the slab and not forming an adequate membrane, which will impact its ability to promote proper hydration, as well as resulting in an uneven gloss on the surface of the concrete. If applying to a vertical surface, we recommend application immediately following removal of the formwork. Ideally, two light coats are applied by brush, roller, or sprayer, with the second coat applied prior to the first coat drying.

Lightly agitate product immediately prior to use for 1 – 3 minutes using a low speed mixer, fitted with a Jiffy mixer or similar mixing paddle. Larger volumes of product may be agitated with a diaphragm air pump or positive displacement pump at 500 rpm or less. Do not use high-speed or gear-driven pumps or agitators with wax-based products. Apply all curing and sealing compounds with either a sprayer or a medium-heavy (3/8") nap paint roller. If applying by roller, and using a solvent-based product, make certain that the roller is solvent resistant. The use of a roller can easily leave roller marks, and the pressure placed on the roller can also affect the finished film appearance. All OTC versions will evaporate very quickly, and if left in a paint tray will become "stringy" as the solvents evaporate. Maintain a wet edge when rolling. Do not roll on excessively, which will cause the film to dry incorrectly. Once material becomes tacky, cease back rolling or brushing. Do not allow the roller to become dry.

If spraying, use the appropriate nozzle wand and tip (25–100 psi. or 0.2– 0.7 MPa.) to produce a properly atomized spray. For very large jobs, use a high quality power sprayer. Use Chapin nozzle # 1-5937 or equivalent when applying high solids curing compounds (25% solids content or higher). If applying two coats, make two applications at right angles to each other to give the most complete and uniform coverage. Do not allow product to puddle. In addition, the use of a lamb's wool applicator or back rolling will generally remove any roller marks and will prevent over-application or bubbles in the coating. Use a sprayer that includes Viton equipped parts when spraying solvent-thinned products, and if using one of the OTC versions, make certain to spray and back-roll immediately, before the product begins to dry.

Apply product at the coverage rate, in ft<sup>2</sup>/gallon, listed on the label or data sheet. Application of curing compound on a slab that appears dry, but is continuing to bleed, can result in map cracking of the dried curing compound and reduction in moisture retention within the slab.

Always clean equipment promptly with mineral spirits or xylene (for solvent-borne products) or with potable water for water-borne products. Never leave a solvent based product in the can or drum outside in direct sunlight.

### Removal

Use EasiKleen EM to remove DR Cure and Thinfilm Series products 420, 450, 453, 454, 456, and 458. Use K Pro CD to remove Thinfilm Series products 422, 424, 445, 445FL, and 446. Remove all remove using approved bead-blasting techniques, or with the use of a heavy duty paint remover such as methylene chloride.

### General Precautions

After application, protect from rain and other wet conditions for at least 3-4 hours at 72°F. Cold weather and hot weather conditions will affect the proper drying of curing & sealing compounds, particularly water-based products. We recommend using these products on days with a minimum of 45°F for 12 hours after placement. In addition, wind protection is highly recommended. Products should be applied as supplied; do not add water or other thinners. Do not apply curing compounds to slabs designed to be static dissipative, disseminating; or to slabs to receive toppings without prior removal or unless otherwise approved. When Krystal Series products are applied to porous surfaces, such as flagstone, slate, terrazzo, or old concrete, the product will penetrate unevenly and may lead to an uneven or blotchy finish. Coated floors are slippery when wet. Barricade wet areas and post wet floor signs as appropriate. Use SureGrip for added skid resistance.

We recommend the use of many of our products with carpet or tile mastics. However, they are not acceptable for use with grout beds, cement toppings, epoxies, or