



The Chemical Company

## **“Exempt-Solvent” –Based Curing & Sealing Compounds from BASF Construction Systems: How to Achieve the Best Results with Kure-N-Seal 25 ES & Kure-N-Seal 30 ES**

**Background:** Kure-N-Seal 25/30 ES have been formulated to comply with Architectural and Industrial Maintenance (AIM) coating regulations designed to curb the generation of ground level ozone, which is the primary constituent of smog. To help achieve compliance with these regulations, “cure and seal” type products can be formulated with either water or solvents which (until recently) have not been used in cure and seal product formulations before. Tertiary Butyl Acetate or “TBAC” is a special exempt-solvent that allows Kure-N-Seal 25/30 ES to fill the niche of their popular predecessors; Kure-N-Seal 25 LV and Kure-N-Seal 30.



**Key Difference:** Whereas Kure-N-Seal 25 LV and Kure-N-Seal 30 were formulated with a “traditional” solvent blend including Xylene, the Kure-N-Seal 25/ 30 ES are formulated with TBAC and exhibit a more rapid drying rate. This more rapid drying rate is the key difference to appreciate to achieve the best results on your projects.

**Test Application:** It is always advisable to conduct a small test application with the Kure-N-Seal 25/30 ES to be sure that desired results will be achieved.

**Temperature Considerations:** Material, substrate and ambient air temperature should be within the range of 50° to 80° F (10° to 27° C) to achieve best results. In general, best results are achieved by avoiding rapid drying conditions which consist of direct sunlight, elevated temperatures and excessive wind. To reduce incidence of bubbling of the drying film, application is recommended on cooler, overcast days or in the evening hours when ambient and substrate temperatures are dropping.

**Lighter Coats:** No matter the Kure-N-Seal, better results are never achieved by over applying the material. While previous Kure-N-Seals might have been more forgiving in this regards, attention to applying Kure-N-Seal 25/30 ES within stated coverage rates (erring on the side of lighter coats - 400-600 ft<sup>2</sup> gal) is necessary.

**Sprayer Choice:** Professional canister sprayers such as the Chapin 19049 Extreme or Hudson Industro Extreme are best suited to the use of Kure-N-Seal 25/30 ES because they are more resistant to the TBAC in its formulation. “General purpose” sprayers used with older Kure-N-Seal formulations will more prematurely wear out when used with the Kure-N-Seal 25/30 ES. Less robust sprayers may also see leaching of carbon black from the hose which then is deposited in the application causing a black discoloration in the film. Avoid storing material within the sprayer and clean out immediately after use to keep the sprayer in working order.

**Spraying of Kure-N-Seal 25/30 ES:** The tips for these sprayers should be of the 0.5 or 1.0 GPM brass spray tip variety or those suggested by the mfg for 25-30% solids content or higher. It is also important to adopt the proper spray technique for Kure-N-Seal 25/30 ES to achieve the most uniform film. This technique requires the applicator to maintain the spray tip in closer proximity to the surface at about 8” (20 cm). Best results can be achieved by backrolling immediately after spraying to even out the wet film with a short 1/4” (0.64 cm) nap, solvent resistant roller cover and avoiding “re-rolling” or rolling when material turns tacky.



**Rolling of Kure-N-Seal 30 ES:** Many experienced contractors profess the most forgiving method of application is by spray followed by backrolling. With extra attention to temperature, though, roller application can achieve desired results. Apply a continuous, uniform film with a short 1/4” (0.64 cm) nap, solvent resistant roller cover. With roller application, keep roller wet and maintain a wet edge. Do not “re-roll” excessively as bubbling or “taffying” of the resin will occur. Again, err on the side of multiple lighter coats to achieve desired results as opposed to a heavier coat and apply in more temperate conditions that do not promote rapid drying.



The Chemical Company

**Advantages:** Kure-N-Seal 25/30 ES's cold weather performance surpasses that of its predecessors because its more rapid drying qualities will allow for less down time between coats. Due to its faster dry time, it also serves to lessen the incidence of grass clippings, leaves, bugs or other construction debris from being stuck in the drying film.

**Product Data Guides & MSDS:** Be sure to read and understand the product data guides for Kure-N-Seal 25 ES (Form # 1021473) and Kure-N-Seal 30 ES (Form # 1400075) and familiarize yourself with the MSDS for each. These are available via the web-site: [www.buildingsystems.basf.com](http://www.buildingsystems.basf.com) or by contacting Customer Service @ 1-800-433-9517



July 2011 / SH

**BASF Corporation**  
**Building Systems**  
889 Valley Park Drive  
Shakopee, MN 55379

[www.buildingsystems.basf.com](http://www.buildingsystems.basf.com)