



Coppercoat® USA CK426 Barrier



Description: CK426 is an air-dried ceramic coating engineered to provide corrosion protection and is generally rolled on to boat bottoms when being applied as a barrier or primer coat. CK426 can be spray applied, generally on large boats; [contact Coppercoat USA](#) for spray instructions. CK426 is a highly modified polymer resin system that has been loaded with a unique package of ceramic particles to enhance performance in aggressive environments. CK426 is manufactured by [CeRam-Kote Coatings, Inc.](#) Big Spring, Texas and was developed to provide corrosion protection in potable water service.

TECHNICAL INFORMATION and INSTRUCTIONS FOR USE PRIOR TO THE APPLICATION OF COPPERCOAT ANTI-FOULING

Volume Solids: 100%

VOC's : Zero

Number of Coats: Two coats

Surface Preparation:

Bonding strength depends on proper preparation of the surface to be protected for long-term performance of the product. The substrate should be free of oil, grease and salt contamination. Cleanliness is the most important step to produce a coated surface that will perform and last.

Fiberglass hulls: Sand with 80 grit sandpaper, giving an even profile over the whole surface.

Aluminum or steel: Sandblast the surface; contact Coppercoat USA for additional information.

When cleaning the surfaces before applying either CK426 or Coppercoat, only clean with water or isopropyl alcohol. **Never use acetone or MEK or other solvent based cleaners. If you have any questions regarding solvent based cleaners contact Jim Edwards, 321-514-9197.**

Mixing Ratio: Two (2) parts Part A to one (1) part of Part B, by volume

Thinning: Thin with 90%-99% Isopropyl Alcohol, 10% by volume.

Mixing: CK426 ceramic particles must be placed into full suspension with the polymer resin prior to application. CK426 is packaged in two cans, Part A (resin and ceramics) and Part B (curing agent/ hardener).

-Use a stir stick or drill mixer to mix Part A until all ceramic powders are suspended in the resin. The time required to place ceramics into suspension varies according to temperature; at 72°, generally about 4 minutes. Regardless of time needed, mix all ceramic material into suspension prior to proceeding. Failure to properly mix will keep CK426 from performing or curing properly.

-Add up to 10% (90-99% pure) Isopropyl Alcohol to thin the CK426 Part A and mix lightly.

-Combine Part A (mixed coating combined with the isopropyl alcohol) and Part B (curing agent), stir again until all parts are thoroughly mixed; about 2-3 minutes will probably be enough to thoroughly mix the components. Caution, over-mixing will create heat buildup, which will shorten the pot/work life.

-No induction time is needed before application.

-Never put the lid back on the mixed CK426, even if there is very little left in the bottom of the can. Cover the can with a towel or piece of paper if you are concerned about dirt getting into the can. The polymer will get very hot when in an enclosed can and kick off (harden), greatly reducing the pot life.

- If you don't have enough help to apply the full gallon in 20 to 30 minutes, mix a half gallon or less. The mix ratio is 2 to 1. For example, in a mixing cup mix 40oz of part A and 20oz of part B.

Pot Life & Shelf Life:

Pot life for CK426 at 72°F is approximately 30 minutes. Colder temperatures will increase the pot life and warmer temperatures will shorten the pot life. Keep cans and roller pan out of direct sunlight to prevent heat buildup. CK426's preferred storage/usage is a dry enclosed area under 85° / used within two (2) years.

Application:

While the CK426 can be sprayed, we find it rolls well with a 3/16" roller cover. You can also use a foam roller for epoxy for a smoother surface. A thicker roller will cause drips. Roll on the first coat and wait approximately 4 hours (at 72°) for it to set before applying a second coat.

When rolling CK426 you can roll the second coat while the first is still tacky; wait no longer than 24 hours to apply the second coat.

-CK426 will appear thin and semi-transparent because it doesn't contain colorants; this is OK. The second coat will hide better, but may still look thin compared to other barrier coatings that you may be familiar with. Hint: Roll out the CK426 in a "W" pattern instead of straight up and down strokes to avoid "hard lines" in the paint.

Climate:

Use CK426 only if the hull temperature and ambient air temperature is above 40°F. Do not paint if the hull is wet or damp from dew, when surfaces are less than five degrees Fahrenheit above the dew point and holding, or when relative humidity is greater than 85%. Moisture will inhibit the catalyst reaction and CK426 will not cure or perform properly.

Cleanup:

Clean all equipment within (thirty) 30 minutes of final use with Acetone or MEK. Roller covers and brushes cannot be cleaned, so throw them away. While Acetone or MEK can be used to clean your equipment, you should NEVER use them to clean the hull before applying CK426 as they will prevent proper adhesion.

Safety:

See individual product label for safety and health data. A Material Safety Data Sheet is available upon request.

Next Step: Coppercoat

You can apply the Coppercoat Anti-Fouling while the CK426 is still tacky, or you can wait as long as 24 hours **maximum** before applying the Coppercoat without sanding. If you wait more than 24 hours after applying the CK426 before applying the Coppercoat, you must sand the CK426 with 80 grit sandpaper and then wipe down the surface with isopropyl alcohol before applying the Coppercoat. Furthermore, if there are runs in the CK426 you must sand them out before applying the Coppercoat or they will leave high spots, which will result in challenges when sanding the Coppercoat before launching.

When applying Coppercoat over the CK426 read and follow all [Coppercoat Application Instructions and Do's and Don'ts](#).

If you have any questions regarding the application of either CK426 Barrier Coating or Coppercoat please contact Jim at Coppercoat USA

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