Coppercoat®USA
CK426 Barrier Coating

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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 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 originally 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, 5 mil per coat
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 on a dual action (DA) or random orbital (RO) sander, giving an even profile over the whole surface. Aluminum or steel: Sandblast the surface; call Coppercoat USA for additional information. When cleaning the surfaces before applying either CK426 or Coppercoat, only clean with water. 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 (white resin) to one (1) part of Part B (amber colored curing agent), by volume.
Thinning	Not necessary
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 curing and performing properly. -Combine Part A 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, overmixing will create heat buildup, which will shorten the pot/work life. -No induction time is needed before application, as soon as it's mixed it's ready to roll on. -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 at a time. The mix ratio is 2 to 1. For example, in a mixing pot mix 40 oz of part A and 20 oz 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 pans 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

It is very important for the cured CK426 to be smooth, particularly if Coppercoat anti-fouling paint will be applied over the CK426 barrier coat. Roll on the CK426 with a 1/8" roller cover, nothing thicker. Either 1/8th" foam or 1/8th" mohair. A 1/8th" foam roller for epoxy generally gives the smoothest surface. A thicker roller causes a thicker application, which will result in drips and rough areas.

Roll on the first coat and wait approximately 4 hours (at 72°) for it to set before applying a second coat. When applying CK426 you can roll the second coat while the first is still curing; wait no longer than 24 hours to apply the second coat.

-CK426 will appear thin and opaque because it doesn't contain colorants. This is ok; the second coat will hide better; it may still look thin compared to other barrier coatings that you are familiar with.
Hint: Roll out the CK426 in a "W" pattern instead of straight up and down strokes to avoid "hard lines" in the finished coating.

Because it so **important that the CK426 application is smooth** on the hull and to ensure there are no high areas we strongly recommend that you **sand the surface lightly with 80-grit sandpaper** on a DA to create a smooth surface prior to the application of Coppercoat -see **"Next Step"** below.

Climate

Use CK426 only if the hull temperature and ambient air temperature is above 48°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 equipment within 30 minutes of final use with Acetone or MEK (do not let it get on the hull).

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 bottom paint while the CK426 is still curing (within 24-hour window), as long as it doesn't gum up the sandpaper, or "lift" or come off when touched or rolled over, usually about 4 hours, longer if it's cold. Or you can wait a maximum of 24-hours (overnight for example) before applying the Coppercoat without a hard sanding. You should sand the CK426 lightly with 80-grit sandpaper on a **DA or RO sander before** applying the Coppercoat to smooth out runs, high spots and orange peel, then wipe the hull with a clean cloth to remove the dust and fingerprints. High spots will make it much **more difficult** to adequately sand the Coppercoat before launching. If the Coppercoat is not sanded well, the copper is not exposed, and the boat will probably get barnacles and need to be re-sanded in the future.

For questions regarding the application of either CK426 Barrier Coating or Coppercoat please contact:

www.CoppercoatUSA.com

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