

## **For applying Cerama-Tech ceramic insulation coating to various roof, wall and ducting surfaces.**

**CLEANING** - The key to any successful coating or paint application is a clean, dry surface to bond to. It is recommended that the roof wall or duct surface be cleaned thoroughly with a cleaner such as TSP (trisodium phosphate) according to its package instructions. Work it round with a push-broom or scrub brush to remove dirt, loose materials, droppings, etc. Power-wash with water and allow to dry thoroughly. Make sure all cracks and holes are dry so that water will not wick up into the coating under-surfaces when applied.

**REPAIRING** - Repair roof and wall surfaces appropriately for the surface to be coated. For metal roofs, check and/or replace roofing screws (use Self-locking, rubber-backed screws). For composite or asphalt roof, remove peeled or flaking material fill any cracks larger than 1-16" width with roofing tar; feather cement or other sealing compound appropriate for the surface material. Over large gaps and seams use polyester mesh strips to prevent future cracking (full crack and coat the surrounding area, lay mesh strip into the wet material, then re-coat to seal mesh inside).

Ponding areas must be properly repaired to assure maximum longevity. Raise level by hammering out metal roof dents or filling the area with a bonding coat or feather cement (tear out damaged roof section as required).

**PRIMING** - In most cases, priming the entire surface is not required prior to applying Cerama-Tech. In certain circumstances or in spot areas, it is recommended for preventing rust bleed-through, waterproofing and additional longevity.

For metal roofs, wire brush and/or sand down rust spots. Prime with a good metal primer appropriate for the surface involved.

Wood, clapboards, shiplap or interior wall surfaces can be stained and stainblocked with stain blocking primer to prevent stain bleed-through from watermarks and stains.

New Concrete, concrete, cement block, brick or stucco should be allowed to cure thoroughly. Clean and powerwash to help lower the pH value in the surface. It is recommended to get the pH level to around 4.0 or lower. You can obtain a pH test kit at paint stores. Prime with a high Ph top grade binding acrylic primer.

**APPLICATION** - After proper surface repair, preparation and priming as necessary, make sure the surface has dried completely. Application should begin when you expect at least 3 days without precipitation where the temperature will remain above 40 degrees F for at least 48 hours after applying. If precipitation, extreme humidity or condensation occurs within 24-36 hours after coating, allow to dry and inspect for any resins which might have risen to the top of the coating. If resins are visible (surface remains somewhat slimy), re-coat lightly with additional Cerama-Tech. Light precipitation or condensation after 36 hours should pose no problem to the finish.

The final DFT (Dry Film Thickness) of the finished application should be no less than 8.5 to 12 mils for adequate waterproofing and energy savings. Surfaces which will see unusual water runoff or are in poorer condition should use at least 18 mils DFT to assure proper sealing and longevity.

Expect the following coverage rates for the finished coating.

SURFACE TO BE COATED	
Stucco, brick, concrete or rough porous surfaces	Stucco on average, 100 – 125 sq ft per gallon. This can vary either way depending on how rough the surface is.
Asphalt roofing, wood medium surfaces	80 and up sq. ft. per gallon
Previously painted, smoother surfaces, Metal & aluminum roof & walls, ducting	100 - 150 sq. ft. per gallon
Mineral capsheet roofing	50 sq. ft. per gallon on average

**EQUIPMENT** - Cerama-Tech can be applied with a brush, roller or specialized sprayer. Traditional painting techniques are all that is required for application. Cerama-Tech will apply similar to latex paint. If you can paint, you can Cerama-Tech! It is up to the applicator to properly apply Cerama-Tech to an adequately prepared surface for Cerama-Tech International Inc. to honor it's warranty. NOTE: Do not strain or filter Cerama-Tech. This could remove some of the ceramics from Cerama-Tech. Also NOTE: DO NOT THIN WITH WATER.

For trim areas, it's worth the extra expense for higher quality brushes that won't leave bristles behind. Short or medium knap rollers are preferred for a smoother finish. Heavier knap rollers can hold more material but may have more of a tendency to slide and smear more. Between coats, store brushes and rollers in sealed plastic bags or the plastic bags you get from your grocery store to prevent them from drying out They will be ok for up to 10 days. NOTE: Automatic feed power rollers are NOT usable because the roller cloth strains the ceramics out.

Spray equipment may save time on larger lobs. Applicators may utilize heavy-duty airless, mastic or elastomeric spray rings. Consult the manual or rental company as to which filters to remove (Cerama-Tech should not be filtered or strained through a sprayer) and do not thin. Use a nozzle that suits your experience and preference for elastomerics. Cerama-Tech will apply better at room temperature or above.

**Please feel free to consult your local distributor for your special requirements!**