



Ceramic InsulCoat Roof

Application and Maintenance

Procedures for

Metal Roofing Systems

Metal Roofing Systems

Ceramic InsulCoat Roof

can be applied to galvanized steel,
aluminum, and enameled
steel roof systems.

Topcoat

Ceramic InsulCoat Roof

is intended to be a topcoat providing an extension to the existing roof system and is not a stand-alone roof product.

A Rainbow of Colors

- Many roof coating products are available only in white or a handful of colors.
- Ceramic InsulCoat Roof can be tinted just like paint to any light color.
- Tinting completed through our distribution partners.

Preparation Methods



Straight Forward Process

- Clean, Dry and Sound
- Use National Roofing and Contractors Association (NRCA) guidelines for:
 - New metal roofing systems
 - Existing metal roofing systems

New Metal Roofing

New aluminum and galvanized
metal must be:

- Cleaned,
- Etched,
- and then Primed

before applying
Ceramic InsulCoat Roof

Existing Metal Roofing Systems

Ceramic InsulCoat Roof can be applied to existing galvanized steel, aluminum, and enameled steel roof systems.

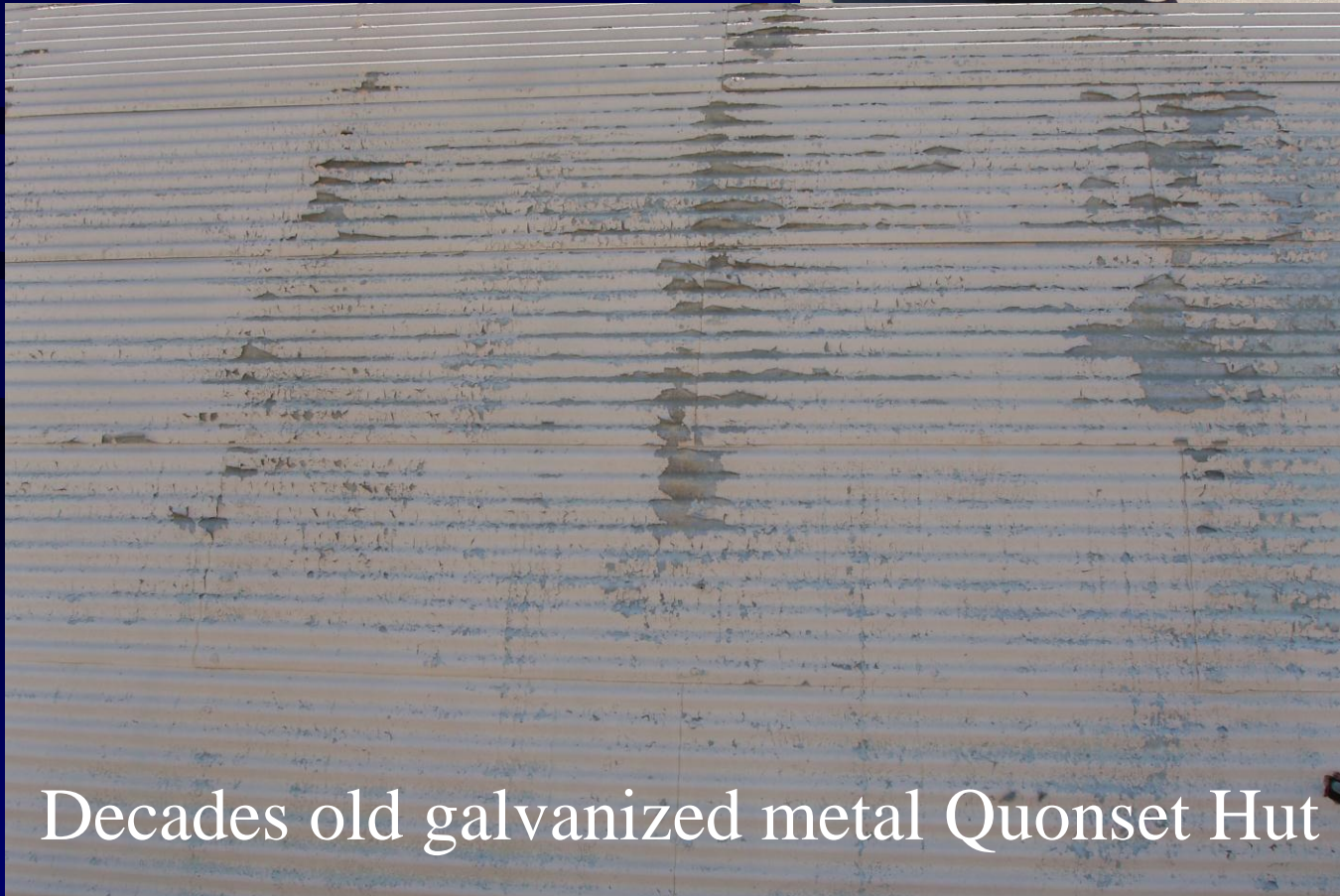
Conditions we encounter:

- Have weathered over time
- Bent edges, holes, leaks, uneven joints and seams
- Dirt, stains, mold, and mildew growth
- Rust

Conditions We Encounter

This Quonset Hut had been painted on numerous occasions over 40 years.

The exterior membrane had chipped, peeled off and generally degraded on the structure exposing the various layers of paint buildup and bare metal. Metal had sections that were bent and separated.



Decades old galvanized metal Quonset Hut

Remove Fungus, Mold and Mildew

Treat areas with a bleach solution.

- Two parts water to one part bleach
- Use deck brush or pot brush to scrub surface
- Rinse off thoroughly
- Retreat as needed

Clean the Surface

Pressure Wash the Entire Roofing System

- Treat fungus, mold and mildew as shown in the previous slide
- Remove other surface contaminants such as: corrosion, dust, dirt, grime, oils, residues, etc.
- If needed, use appropriate detergent and water
- Rinse off thoroughly

Pressure Wash the Metal Roof



Compatibility with Building Patching and Repair Materials

- Like all water-based paints and coatings, Ceramic InsulCoat Roof will not adhere to silicone.
- Questions about Building Materials compatibility should be directed to your EnviroCoatings Factory Representative.

Cracks, Gaps, Holes, Joints, Leaks, Seams, and Uneven Surfaces

Use National Roofing and Contractors Association (NRCA) Guidelines

- Patch, plug, repair and/or replace damaged metal
- Metal fasteners should be checked, tightened and sealed as needed
- Allow repaired areas to cure

Allow Repairs to Cure - Why?

- As building materials dry they exhaust gases and vapors (water, chemical, etc.) to the atmosphere - referred to as off-gasing.
- When the building material has completely dried (and hardened) - it has cured.
- If Ceramic InsulCoat Roof is applied over a building material before it has fully cured - Ceramic InsulCoat Roof could blister and/or bubble.

Patching and Repairs



California: Military Quonset Hut

Preparation included caulking of uneven surface seams and penetrations into the structure.

Manufacturer Specifications required 12-24 Hours to Cure.

Metal Primers

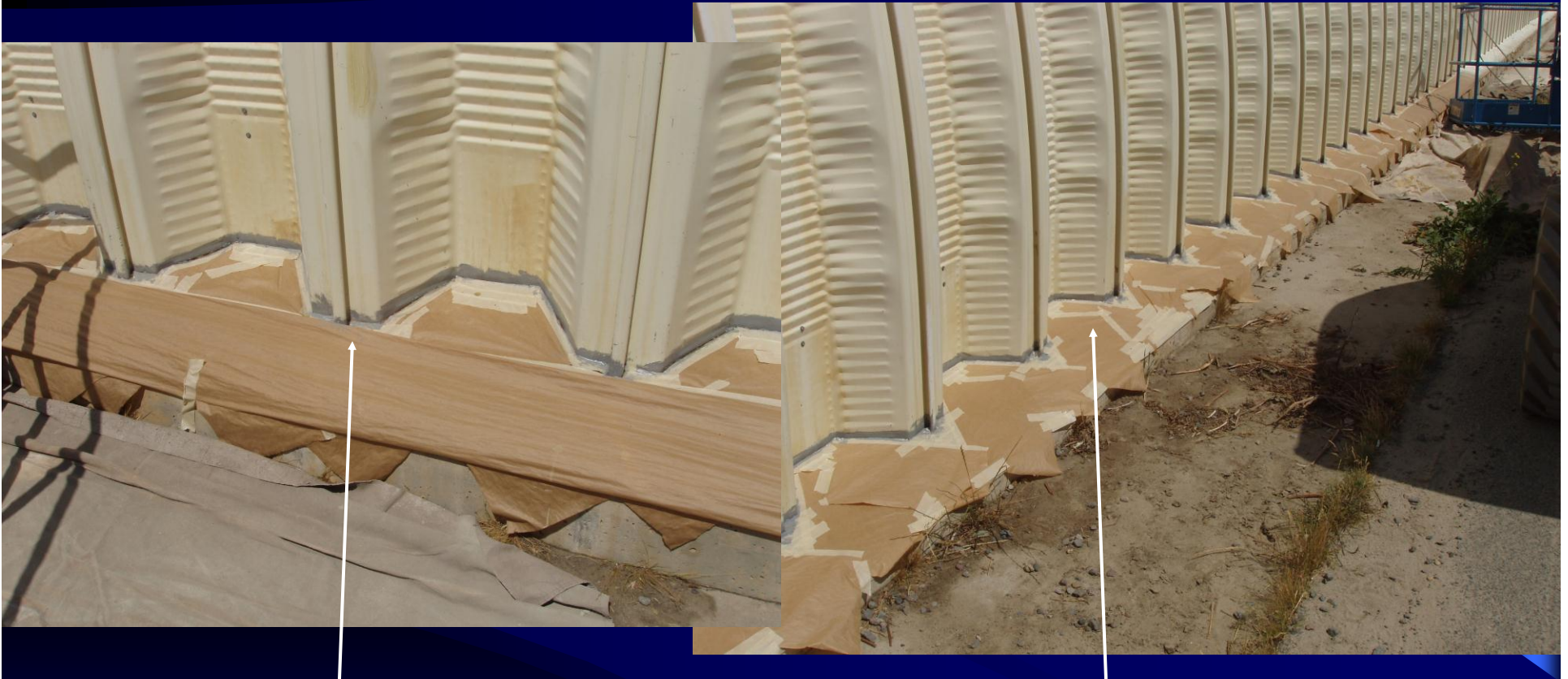
- EnviroCoatings does not manufacture a metal primer.
- Ceramic InsulCoat Roof is compatible with all oil and water-based metal primers.
- Select the appropriate metal primer that best meets the project parameters.

Rust

Follow National Roofing and Contractors Association (NRCA) guidelines

- Clean with a wire brush
- Encapsulate as needed
- Use an appropriate metal primer
- Allow to cure

Treat and Prime Rusted Areas



California: Military Quonset Hut

Structure had slight rusting around the base. Pressure washed, scraped off loose rust and then applied metal primer.

Manufacturer Specifications required 24 Hours to Cure.

Unusual Condition - Lead Paint Abatement

- Existing paint on a Military Quonset Hut was tested and confirmed to contain lead.
- Lead paint was removed following approved environmental regulations and procedures.
- The lead abatement exposed bare metal in some areas and lead paint that remained on the surface needed to be encapsulated.
- Therefore, the entire structure was primed with an appropriate metal primer.

California:
Military
Quonset Hut
Lead Paint
Encapsulation



Entire Structure was Primed

Application Methods



Ceramic InsulCoat Roof - Technical Specifications

- Apply to a Clean, Dry and Sound Substrate.
- Ceramic InsulCoat Roof is a two-coat system.
- Each coat is applied at 8 -10 wet mils.

Ceramic InsulCoat Roof - Installation Specifications

- Sold in 5-Gallon Pails
- Do not alter product
- Do not add water or thinners
- Stir or shake container before application
- Box product to ensure uniformity of color

Application Methods

- Brush or Roll - Medium to Heavy Nap Roller
- Spray - Commercial Airless Sprayer

Pump Specifications:

2.5 gallons per minute

3,000 PSI

Hose:

3/8" Hose

Gun and Tip:

Airless Spray Gun

Roof Tip: 0.23" - 0.584mm tungsten-carbide tip

- Easy to apply and easy to clean up

Ceramic InsulCoat Roof - *A Thixotropic Product*

What?

- The product has a natural appearance similar to yogurt.
- Like yogurt, viscosity will appear to vary by age, temperature and agitation.
- To obtain workable viscosity always shake or stir before use.

Shake or Stir Container before Application



Drill Paint Mixer used to Stir Product On-Site



Ceramic InsulCoat Roof can be applied via brush, roller or sprayer



Safety Recommendation: Wear dark sunglasses



Ceramic InsulCoat Roof
specifications call for
8 - 10 wet mils per coat



Wet Mil Gauge used to measure the applied coating thickness



Completed projects

Warranty Inspection

- EnviroCoatings conducts a physical inspection of warranty projects.
- An Ultra-Sonic Gauge is used to measure the dry film thickness of the membrane.
- A minimum of 11-12 dry mils are required to meet our specifications.

Ultra-Sonic Readings



A series of Ultra-Sonic readings are taken to measure dry film thickness



Easy to Maintain

- Roof systems are exposed to the elements and become dirty over time.
- Thermal capabilities are reduced - especially Solar Reflectance.
- Incorporate periodic sweeping, hosing off and/or power washing to remove accumulations of dirt, pollution, leaves, mud, etc.



BEYOND COOL ROOF



California
Title 24
Cool Roof
Compliant



EnviroCoatings

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