

ThermaCote®

Application Guide

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Equipment and Tool Recommendation

ThermaCote® is a single part coating designed for application via heavy-duty airless spray equipment. Brushing and rolling is not recommended but may be a feasible alternative for smaller, harder to reach areas.



Sprayer Requirements – ThermaCote® requires an airless sprayer capable of maintaining a minimum of 3000 psi or a pump ratio of 28:1. ThermaCote, Inc. recommends and is a licensed distributor for Graco pumps and can assist you with your pump needs. Gas, Electric, or combo units are available through ThermaCote, Inc. **Note:** ThermaCote, Inc. recommends removal of all inline filters on the machine and in the spray gun(s) if filters are present.

Hose – A pressure rated 3/8” hose is recommended for better flow of material when spraying ThermaCote®.

Mixing Paddle – We recommend the mixing paddle (“mud paddle”) pictured here when preparing ThermaCote® for application.



Variable Speed Drill – 1/2 hp or greater drill is recommended in conjunction with mixing paddle to properly mix ThermaCote® before spraying.

Safety Equipment - Goggles and Respirator (Just makes good sense.)

Optional Gear - Protective Body Suits, Shoe Covers, Drop Cloths, Spray Shield.

Caution: Shoe Covers can result in loss of traction and should never be worn on sloped or slippery surfaces. .

Surface Preparation

ThermaCote® will adhere to almost any surface which is properly prepared.

- Proper preparation means the surface is thoroughly cleaned, dry, and free of dirt, debris, rust, grease, oil or any other foreign substance.
- Rusty surfaces may require wire brushing and priming to ensure best adhesion and finish.



ThermaCote®.

- New metal surfaces may require removal of temporary protective films. Pressure washing or a vinegar wash works well to remove these protective films. A rusty metal surface (as shown to the right) should be cleaned with a wire brush and coated with a common rust prohibiting primer before application of



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Mixing Instructions



Do not open product until ready to apply. Upon opening, notice that ThermaCote® ingredients settle up in the bucket; this is due to the light nature of its construction (5 lbs a gallon wet). It is recommended to use the entire contents of opened product in one application once it has been mixed. Over mixing can result in loss of performance.

ThermaCote® is packaged in 5 gallon buckets. The lid on the bucket has 8 pre-cut notches that must be cut in order to remove the lid (unless using a “lid puller”).

1. Insert the mud paddle into the drill and secure.
2. Push the mud paddle through the thick top layer.
3. Mix ThermaCote® at a slow speed initially, gradually increasing speed; use an up and down motion and be sure all lumps break up and mix until you have a smooth homogenous liquid (2 minutes or less).
4. **DO NOT RUN DRILL ON HIGH SPEED.**

A stir stick can be used to gently scrape clinging material from the inside of the bucket but insure that nothing that has become hard or brittle (crusty) is dislodged as this can cause your tips to clog during spraying. A seasoned mix person can properly mix a can of ThermaCote® in less than 2 minutes. **DO NOT OVER MIX** as this can affect the overall performance of the product.

Spraying Instructions

1. Run clean water through the spray equipment to prime the lines and generally insure a ready sprayer before application begins.
2. ThermaCote® should be applied in coats of 10 to 20 wet mil thicknesses (WMT) dependant upon the application.
3. Allow ThermaCote® to dry between coats when applying multiple coats.

Coverage should average between 50-65 square feet per gal at 20 mils thickness on flat surfaces. Coverage should average approximately 80 square feet a gallon on smooth metal surfaces at 13 WMT. 13 -15 mil coats of ThermaCote® will dry in 2 hours @ 70° F in low humidity atmospheres (less than 5,000 feet above sea level).



Clean Up

Use warm, soapy water for clean up of tools, equipment, spills and drips.

- Flush spray equipment with clean water until clean water comes out.
- Do not run storage fluids through a pump before water runs clean. Properly cared for equipment will last longer and go further between repairs.

Product Storage

- Store product indoors between 40°-110° F
- **DO NOT EXPOSE THE PRODUCT TO DIRECT SUNLIGHT DURING STORAGE** - Prolonged exposure to direct sunlight can cause a “curing” type reaction to take place inside product container and make the product hard or crusted inside the bucket.
- **DO NOT ALLOW PRODUCT TO FREEZE**