

# Technical Bulletin



## BOILER COAT® Series 710

### BOILER COAT® HEAT RESISTANT SILICONE COATINGS (1200°F) HEAT RESISTANT 710 SERIES ALUMINUM

#### DESCRIPTION:

Boiler Coat® Heat Resistant Silicone Coatings are the most heat resistant ready-mixed coatings available for use on exterior and interior metal surfaces.

#### FEATURES:

1. A silicone resin vehicle based coating pigmented with aluminum.
2. Will withstand temperatures from 500°F to 1000°F for prolonged periods (1200°F for non-continuous periods.)
3. Boiler Coat® 710 Series Aluminum provides a brilliant silvery finish. The vehicle used in it burns slowly and cleanly leaving a minimum carbon deposit and a tightly adhering aluminum film.
4. Boiler Coat® 710 Series Aluminum requires no primer. However, a diluted primer coat provides ultimate protection.-(Use 10% Xylol for dilution)
5. Coverage:  
Boiler Coat® 710 Series Aluminum 500-700 square feet per gallon (yields 2.0 – 2.9 mils wet; 0.5 – 0.7 mils dry film thickness.

#### APPLICATION:

1. SURFACE PREPARATION – Clean surface thoroughly to remove dirt, oil, grease, and other foreign matter. Previous coating in unsound condition should be removed.
2. RUSTED SURFACES – Remove all loose rust and scale. Spot prime these surfaces with Boiler Coat® 710 Series Aluminum.
3. GENERAL – Stir Boiler Coat® 710 Series Aluminum thoroughly and apply directly out of the sun by brush, roller or spray. It is not necessary to thin. Dries to touch in ½ - 1 hour; can rehandle in 2-6 hours, ready to recoat in 24 hours. For best results apply 2 coats. Each coat should be fully cured before applying the next coat. Curing can be hastened by raising surface temperature to 450°F - 500°F for one hour. Use Xylol for cleanup.
4. PRODUCT NOTE: - Do not use Boiler Coat® Heat Resistant Coatings on surfaces that exceed the highest temperature limit or fail to reach the minimum temperature specifications. May be applied to surfaces bearing temperatures ranging from room temperature to 350°F.

#### USES:

Boiler Coat® Heat Resistant Coatings are ideal for coating smoke-stacks, furnaces, boiler fronts, breechings and other metal parts where temperature exceeds 500°F and thermal shock conditions may prevail.

#### PHYSICAL AND CHEMICAL PROPERTIES:

##### 710 Series Aluminum:

1. Viscosity – 70-80 KU
2. Weight per gallon – 8.5 lbs.
3. Flexibility 180°F Mandrel Test – ¼” – Passes
4. Adhesion to all steel – Excellent
5. Durability – Excellent
6. Salt Spray Resistance: 200 hours in salt spray booth – No Effect
7. Weatherometer: 800 hours in Atlas Weatherometer – No Effect
8. Abrasion Resistance – Good