

## Aremco Corr-Paint™ CP2050-XX High Temperature Protective Coating Epoxy-Phenolic, Glass Fiber Filled

Category : Ceramic , Other Engineering Material , Ceramic/Metallic Coating

### Material Notes:

This epoxy and urethane based coating is used for producing corrosion and wear resistant barriers to 500 °F. Typical applications include tanks, pipelines, boilers, precipitators, scrubbers, bag houses, cyclones, hoppers and other process equipment used in the power, pulp and paper, and chemical processing industries.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Aremco-Corr-Paint-CP2050-XX-High-Temperature-Protective-Coating-Epoxy-Phenolic-Glass-Fiber-Filled.php](http://www.lookpolymers.com/polymer_Aremco-Corr-Paint-CP2050-XX-High-Temperature-Protective-Coating-Epoxy-Phenolic-Glass-Fiber-Filled.php)

| Physical Properties                      | Metric          | English        | Comments                       |
|------------------------------------------|-----------------|----------------|--------------------------------|
| Specific Gravity                         | 1.60 g/cc       | 1.60 g/cc      |                                |
| Solids Content                           | 100 %           | 100 %          | weight                         |
|                                          | 100 %           | 100 %          | volume                         |
| Volatile Organic Compounds (VOC) Content | 0.00 g/l        | 0.00 g/l       |                                |
| Thickness                                | >= 1270 microns | >= 50.0 mil    | estimated wet film thickness   |
|                                          | >= 1270 microns | >= 50.0 mil    | recommended dry film thickness |
| Storage Temperature                      | 4.44 - 32.2 °C  | 40.0 - 90.0 °F |                                |

| Mechanical Properties  | Metric              | English             | Comments                        |
|------------------------|---------------------|---------------------|---------------------------------|
| Hardness, Shore D      | 86                  | 86                  | for Epoxy Coating               |
| Elongation at Break    | 3.0 %               | 3.0 %               | for Epoxy Coating               |
| Flexural Strength      | 92.4 MPa            | 13400 psi           | for Epoxy Coating               |
| Compressive Strength   | 71.0 MPa            | 10300 psi           | for Epoxy Coating               |
| Adhesive Bond Strength | 2.07 MPa            | 300 psi             | Lap Shear Strength vs. Aluminum |
|                        | @Temperature 175 °C | @Temperature 347 °F |                                 |
|                        | 6.21 MPa            | 900 psi             | Lap Shear Strength vs. Aluminum |
|                        | @Temperature 150 °C | @Temperature 302 °F |                                 |
|                        | 12.4 MPa            | 1800 psi            | Lap Shear Strength vs. Aluminum |
|                        | @Temperature 100 °C | @Temperature 212 °F |                                 |
|                        | 18.6 MPa            | 2700 psi            | Lap Shear Strength vs. Aluminum |

| Mechanical Properties | @Temperature 25.0 °C<br>Metric | @Temperature 77.0 °F<br>English | Comments |
|-----------------------|--------------------------------|---------------------------------|----------|
|-----------------------|--------------------------------|---------------------------------|----------|

| Thermal Properties               | Metric     | English   | Comments |
|----------------------------------|------------|-----------|----------|
| Maximum Service Temperature, Air | 204 °C     | 400 °F    |          |
| Flash Point                      | >= 93.3 °C | >= 200 °F |          |

| Processing Properties  | Metric                             | English                            | Comments                                 |
|------------------------|------------------------------------|------------------------------------|------------------------------------------|
| Processing Temperature | 10.0 - 32.2 °C                     | 50.0 - 90.0 °F                     | Application Temperature                  |
| Dry Time               | 6.00 - 8.00 hour                   | 6.00 - 8.00 hour                   | Touch                                    |
|                        | 12.0 - 14.0 hour                   | 12.0 - 14.0 hour                   | Handling                                 |
|                        | 4.00 - 48.0 hour                   | 4.00 - 48.0 hour                   | Recoat                                   |
| Cure Time              | 240 min<br>@Temperature 79.4 °C    | 4.00 hour<br>@Temperature 175 °F   | >2 Hour Air Set Required Prior to Curing |
|                        | 2880 min<br>@Temperature 22.2 °C   | 48.0 hour<br>@Temperature 72.0 °F  | >2 Hour Air Set Required Prior to Curing |
| Pot Life               | 42.0 min<br>@Temperature 23.0 °C   | 42.0 min<br>@Temperature 73.4 °F   |                                          |
| Shelf Life             | 12.0 Month<br>@Temperature 23.0 °C | 12.0 Month<br>@Temperature 73.4 °F |                                          |

| Descriptive Properties    | Value                       | Comments        |
|---------------------------|-----------------------------|-----------------|
| Color                     | Brown-Red                   |                 |
| Dry Film Coverage ft2/gal | 1604                        | at 1 mil        |
| Mix Ratio                 | 1:1                         | Epoxy:Phenolic  |
| Mix Ratio By Weight       | 1:1                         | resin:activator |
| Mixed Viscosity           | Paste                       |                 |
| Primer                    | Not Required or Recommended |                 |
| Thinner                   | Not Required or Recommended |                 |

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