

Aremco Quartz-Coat™ 845 High Temperature Ceramic-Inorganic Coating

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

Material Notes:

Single part, waterborne, silicon-filled, phosphate-bonded, brown-black coating for glass and quartz to 2000 °F (1093 °C). Primarily used for marking ceramic parts and coating automotive headlamps, stadium lighting and quartz vessels for the semiconductor industry.

Standard viscosity is 200–400 cP; a higher viscosity coating, 845-HV, in the range of 500–800 cP is available upon request.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Quartz-Coat-845-High-Temperature-Ceramic-Inorganic-Coating.php

| Physical Properties | Metric | English | Comments |
|--|----------------|----------------|--------------------------------|
| Specific Gravity | 1.44 g/cc | 1.44 g/cc | |
| Solids Content | 22.9 % | 22.9 % | by volume |
| | 50.1 % | 50.1 % | by weight |
| Volatile Organic Compounds (VOC) Content | 0.00 g/l | 0.00 g/l | |
| Viscosity | 200 - 400 cP | 200 - 400 cP | |
| Thickness | 25.4 microns | 1.00 mil | recommended dry film thickness |
| | 82.3 microns | 3.24 mil | estimated wet film thickness |
| Storage Temperature | 12.8 - 29.4 °C | 55.0 - 85.0 °F | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---------|---------|------------|
| Maximum Service Temperature, Air | 1090 °C | 2000 °F | Continuous |

| Processing Properties | Metric | English | Comments |
|------------------------|----------------------|---------------------|---------------------------------------|
| Processing Temperature | 10.0 - 32.2 °C | 50.0 - 90.0 °F | Application Temperature |
| Cure Time | 5.00 min | 0.0833 hour | Step 2 |
| | @Temperature 482 °C | @Temperature 900 °F | |
| | 10.0 min | 0.167 hour | Step 1, preceeded by >10 min. air set |
| | @Temperature 93.3 °C | @Temperature 200 °F | |
| Shelf Life | 6.00 Month | 6.00 Month | |

| Descriptive Properties | Value | Comments |
|------------------------|-------------|----------|
| Color | Brown-Black | Cured |

| Dry Film Coverage ft ² /gal Descriptive Properties | | 495 Value | at 1 mil Comments |
|--|--|--------------|----------------------|
| Thinner | | 845-T | |

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