

Cerama-Tech

Technical Data & Specifications

Physical Properties:

- Base Material: Copolymer acrylic latex
- VOX: 115.0 g/1
- Viscosity: 140ku
- Total solids:
 - By weight: 58.5%
 - By volume: 44%
- Total weight:
 - Five gallon pail: 63.5 pounds
- Tensile Strength: 220 psi
- Elongation (ASTM D 2370):
 - 300 to 500% at break
- Permeance:
 - 4.98 perms (ASTM E 96)
- Flame spread (ASTM D 3806): 10
- Flame spread (ASTM 84):
 - 0 – Flame Spread Index
 - 5 – Smoke Developed Index
 - Steady ignition (minutes): Did not occur
- Emissivity (ASTM E 408):
 - 0.90 for Wood and Metal
- Weatherometer (300 hrs.): No Change
 - Durability: Excellent
 - Color retention: Excellent
 - Grain crack resistance: Excellent
 - Film integrity: Excellent
- Solar Reflectivity (Surface Optics Corp)
 - 0.830 (Initial measurement - on a sunny day)
 - 0.788 (Third year measurement)
- Solar reflectivity (California Sate Administrative Shading Coefficient code: Title 25):
 - 0.61 (On a cloudy overcast day)
- Adhesion 180 degree peel adhesion (ASTM D 4541 lbs./in2):
 - 450 to 500 lbs./in2 (Separation was between the Tamko granules and the felt.)
- Irradiation: Asphalt/glass fiber shingle

<u>Air Temperature</u>	<u>Uncoated</u>	<u>Cerama-Tech coated</u>
-Outside Surface:	171° F	126° F
-Inside Surface:	162° F	120° F
- Arid Regions Building Laboratory-Department of Mechanical Engineering, University of Nevada, Las Vegas. Summary results for the testing months of June, July, August, and September:
 - 51.32% decrease in kilowatt consumption.