Laboratory Data Sheet

Armstrong A-2 Epoxy Resin Adhesive

With Activator "E"

July 2015

PRODUCT DESCRIPTION

Armstrong A-2 is an off-white versatile filled paste resin. It has low coefficient of thermal expansion making it ideal for bonding porcelain, glass, ceramics, etc. A-2 exhibits excellent wetting properties and provides exceptionally strong bonds to such rigid materials as cast iron, steel, aluminum, copper, bronze, magnesium, phenolics, wood, titanium, polycarbonate, polyester, nylon, acrylics, acetates, and A.B.S. Versatility is achieved by selecting one of four recommended curing agents (activators). Non-metallic oxide fillers provide excellent electrical insulation properties.

A-2 with Activator E -

Is a low reactivity curing agent to be used where long working time is necessary and elevated temperature cure can be tolerated. Not recommended for room temperature cure. Activator E also has a low combining weight as with Activator A.

TYPICAL PHYSICAL PROPERTIES

	A-2 Resin	Act. E
Viscosity @ 77°F	5,000	5-15 cps
Specific Gravity	1.8	0.83
Color	Off White	Gardener 2 Max

TYPICAL PHYSICAL PROPERTIES OF THE CURED SYSTEM

System	**A-2/E**
Mix-Ratio by Weight	100:6
Mixed Viscosity, poise	1700
Working Life	2-3 hrs.
Specific Gravity, mixed	---
at Room Temp	2500
at 180°F	2960
at -60°F	2850
After 7 days in	
Ammonia, 28%	3050
Distilled Water	2930
Salt Water, 10%	3380
Acetone (100%)	3030
Glacial Acetic Acid	2350
Toluene (100%)	3600
Ethylene dichloride (100%)	3050
Ethyl Acetate	2000
Hexane (100%)	2520
After 30 days in 100% RH	2400
Bond Strength, PSI (ASTM D897)	4520
Compressive Strength, ULT PSI (ASTM D695)	16500
Thermal Coef.. Expansion, in/in °F x 10^{-5}	4.0
Elongation, % (ASTM D638)	2.8
Tensile Strength, PSI (ASTM D638)	6570
Cleavage, PSI (ASTM D 1602)	1860
Optimum Cure Schedule*	1 hr. @ 200°F
Fast Cure Schedule	---

Storage

Store below 25°C out of sunlight and in original unopened containers. Refer to packaging specific quote for shelf life information.

Data Ranges

The data contained herein may be reported as a typical value and/or range. Values are based on actual test data and are verified on a periodic basis.

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