



ANE-46515™

DEFINITION

ANE-46515™ is a 100% solids (no VOC) general-purpose epoxy for use as a flexible adhesive/sealant and potting compound. ANE-46515™ is specifically developed for bonding to difficult substrates such as glass, ceramics, all plastics, rubbers, and metals. The rheology of ANE-46515™ is designed to provide controlled flow properties to enable the user precise application.

PRODUCT DESCRIPTION

Appearance	Liquid
Odor	Faint
Color (May be modified to meet your requirements)	Clear, Amber

Property	Result	Methods
Viscosity	40,000 mPa·s	Brookfield RVT, Spindle 27, Small Sample Adaptor, 10 rpm, 25°C

Other information		
Work life time @ 25 ± 2°C	10 minutes (viscosity doubles)	
Gel Time @ 25°C	15-20 minutes (depending on mass and substrates)	
Full Cure Time @ 25°C	24-120 hours	
Fixture/Handling Time @ 25°C	20-30 minutes	
Fixture/Handling Time @ 85°C	5-10 minutes	
Mix Ratio:	By weight:	Part A 100 Part B 82
	By Volume:	Part A 100 Part B 100
Possible curing cycles	24- 120 hours at 25°C 1 hour @ 85°C (185°F)	
Specific gravity @ 25°C (g/cm ³)	1.17	
Storage stability (unmixed)	1 year at room temperature	

APPLICATION PROPERTIES

- **ANE-46515™**, when fully cured, is highly resistant to moisture, hot water, steam, hot antifreeze solutions, automotive fluids, detergents, gasoline, hydraulic fluids, plasticizers, cleaning agents, acids, and bases.
- **ANE-46515™** is highly resistant to vibration and can be thermal cycled between -40 and 150°C.

APPLICATION RECOMMENDATIONS

- As with many resin products, crystallization of the resin can happen while in storage. **ANE-46515™** can be returned to its original state --without any performance and or quality loss-- by heating to 60°C for 1-2 hours. When all the crystals have melted the material should not re-crystallize for 1-2 weeks. To prevent re-crystallization, store in a freezer at -10°C until ready to use.

TYPICAL PROPERTIES OF CURED ANE-46515™

The properties set out below were determined following measurements carried out in the laboratory over a small number of tests. They are values given by way of guidance, and do not constitute a guarantee. It will be for the user, in all cases, to carry out their own tests to determine whether the **ANE-46515®** resin can be used for the particular application the user has in mind.

PHYSICO-CHEMICAL PROPERTIES

Properties	Methods	Units	Typical values
(Cure time at 25°C)			
Shore D hardness (24 hours)	ASTM D2240	-----	70
Lap shear to Al (24 hours)	ASTM D3163	psi	1,000
Lap shear to Al (48 hours)	ASTM D3163	psi	2,200
Lap shear to Al (72 hours)	ASTM D3163	psi	2,800
Lap shear to Al (96 hours)	ASTM D3163	psi	3,600
Lap shear to Al (120 hours)	ASTM D3163	psi	4,000
Cure 2 hours @ 85°C (185°F)			
Shore D hardness	ASTM D2240	-----	70
Lap shear to Al	ASTM D3163	psi	4,500

ELECTRICAL PROPERTIES

Properties	Methods	Units	Typical values
Volume Resistivity <ul style="list-style-type: none">• 100 V• 500 V	ASTM D257	Ω -cm	<ul style="list-style-type: none">• 8.0×10^{14}• 6.3×10^{14}
Dielectric Constant <ul style="list-style-type: none">• 120 Hz• 1000 Hz	ASTM D150	--	<ul style="list-style-type: none">• 4.3• 4.3
Dissipation Factor <ul style="list-style-type: none">• 120 Hz• 1000 Hz	ASTM D150	--	<ul style="list-style-type: none">• 0.002• 0.002

PRECAUTIONS IN USE

Refer to the attached material safety data sheet.

PACKAGING

ANE-46515 is available in two component kits, frozen one component syringes and twin syringe cartridges like Mixpac[™].

For sizes and part numbers, contact Protavic America, Inc.

The information contained in this data sheet corresponds to the present state of our knowledge; it is intended for your guidance but we are not bound by it since we are not in a position to exercise control over the manner in which our products are used. Moreover; the attention of the user is drawn to the risks that could possibly occur should a product be used for an application other than that for which it is intended.