



ADHESIVES FOR ELECTRONIC APPLICATIONS

material solutions for tomorrow's applications

the leader in electronic and industrial cured for fast throughput manufacturing. coatings technologies. Our innovative position for tomorrow's adhesive solutions.

needs.

Epoxies are thermosetting resins with excellent adhesion to metals, ceramics, glass, rubber, and HumiSeal Adhesive Solutions are found in some plastics due to their high cohesive strength. a variety of markets, including aerospace, When fully cured, HumiSeal epoxy resins will not automotive, white goods, medical, and others. revert to a liquid phase with repeated heating. Whether you are working with high mechanical Epoxy adhesives inherently possess high stresses such as vibration or impact, high chemical resistance, good electrical insulation, temperature excursions, or caustic chemical and structural integrity. The two-part products exposure, HumiSeal adhesives demonstrate cure at room temperature, however the process unparalleled strength and durability.

HumiSeal Adhesive Solutions can be accelerated with the addition are specialty products designed by of heat or in some cases can be UV

approach to the formulation of structural Polyurethanes are thermosetting resins that bonding materials differentiates in today's are flexible and have good resistance to water market. HumiSeal's global presence, strong and solvents. They also maintain high structural technical support, and fast custom formulation integrity and good adhesion to plastics, rubber, capabilities significantly compliments our metals, and glass. HumiSeal urethane adhesives are two-part systems that can be stored conveniently at room temperature. UV cured HumiSeal adhesives are engineered from a range adhesives consist of acrylated urethane and of epoxy, urethane, and acrylate chemistries and epoxy chemistries and are designed specifically may be cured using a variety of methods, such as for fast curing with exposure to UV light - typically two-part, heat, RTV, and UV-light. Additionally, our in 30 seconds. Excellent electrical properties, R&D chemists specialize in rapid deployment of flexible or rigid, and great bonding capabilities to custom formulations for your specific application a variety of materials make UV cured adhesives ideal for industrial or electronic high throughput applications.

O		ADHESIVES	Chemistry	Viscosity Part A (CPs)	Viscosity Part B (CPs)	Mix Ratio	Pot Life (min)*	Handling Time (min)*	Full Cure**	Cure Type	Color	Hardness	Operating Temp (°C)	Applications	Substrates
8	2A20	General purpose adhesive or encapsulant. Medium viscosity with 1:1 mix ratio. Medium hardness with good flexibility. Wide range of applications with bonding capabilities to multiple substrates.	Urethane	9,000	1,100	1:1	< 8	10	18 hrs @ RT or 30 min @ 65°C	2 component with heat option	Clear	D45	-50 to 100	Electronic, industrial, and wide-range bonding	Metals, Hard to Bond Plastics, Glass, Ceramics, PolyCarb,
Ŏ	2A20HV	General purpose adhesive or encapsulant. High viscosity with 1:1 mix ratio and long work life. Medium hardness with good flexibility. Wide range of applications with bonding capabilities to multiple substrates.	Urethane	100,000	30,000	1:1	30	35	18 hrs @ RT or 20 min @ 65°C	2 component with heat option	Clear	D40	-60 to 125	Electronic, industrial, and wide-range bonding	Metals, Hard to Bond Plastics, Glass, Ceramics, PolyCarb,
\bigcirc	2E24	Toughened 5 min epoxy adhesive capable of performing at low temperatures and bonding to wet surfaces. Thixotropic with 1:1 mix ratio. Will bond to variety of substrates.	Ероху	Thixotropic	50,000	1:1	5	7	1 hr @ RT or 20 min @ 65°C	2 component with heat option	Translucent	D85	-60 to 125	Industrial and commercial bonding	Metals, Glass, Ceramics, Plastic
Ö	2E25	Epoxy adhesive or encapsulant with range of mix ratios and hardness resulting in high bond strength to variety of materials. Very good electric insulator, resistant to gasses, water, petroleum products, and acids. FDA compliant.	Ероху	12,000	14,000	2:1 to 1:2	60	120	12 hr @ RT or 2 hrs @ 65°C	2 component with heat option	Amber	D64 to D80	-40 to 155	Electronic, industrial, and wide-range bonding	Metals, Glass, Ceramics, Plastic
	2E26	Toughened adhesive or encapsulant designed for high humidity environments. High viscosity with 2:1 mix ratio. High resistance to physical shock, exposure to water, or chemicals.	Ероху	130,000	10,000	2:1	120	60	24 hr @ RT or 2 hrs @ 65°C	2 component with heat option	Amber	D80	-60 to 150	Electronic and industrial bonding	Plastic, Metals
JO	2E26-G	Two part epoxy potting and bonding material with easy 2:1 mix ratio. Provides good protection against high humidity, mechanical shock, and chemicals. This product is light weight with specific gravity of 0.77 and is sandable.	Ероху	60,000	50,000	2:1	20	160	24 hr @ RT or 30 min @ 65°C	2 component with heat option	Gray	D76	-60 to 125	Electronics, industrial, aerospace bonding	Metals, Wood, Glass, Ceramics, Plastic
	UV23	One part, UV/cationic cure epoxy adhesive. Capable of high temperature performance with good chemical and moisture resistance.	Ероху	12,000	-	-	UV exposure	30 sec with UV exposure	24 hrs @ RT or 1 hr @150°C	UV/Cationic	Clear	D45	-50 to 150	Electronic and industrial bonding	Metals, Glass, Ceramics, Plastic
at er al	UV23LV	High strength, chemical resistant, low outgassing polymer system capable of surviving exposure up to 200°C. One part, UV/cationic cure epoxy adhesive.	Ероху	2,500	-	-	UV exposure	30 sec with UV exposure	24 hrs @ RT or 1 hr @ 150°C	UV/Cationic	Clear	D80	-10 to 200	Electronic and industrial bonding	Metals, Glass, Ceramics, Plastic
er, es	UV21	One part, medium viscosity, fast curing urethane acrylate that bonds a wide variety of different substrates. Exhibits good surface wetting and adhesion to glass, metals, and a wide variety of plastic based substrates.	Urethane/ Acrylate	4,500	-	-	UV exposure	30 sec with UV exposure	1 - 2 J/cm2 total exposure	UV	Clear	D36	-20 to 125	Electronic and industrial bonding	Metals, Glass, Ceramics, Plastic
ed nd ly ly s,	UV22	One part, med-high viscosity, fast curing urethane acrylate that bonds a wide variety of different substrates. Toughened adhesive that exhibits good surface wetting and adhesion to glass, metals, and a wide variety of plastic based substrates.	Urethane/ Acrylate	20,000	-	-	UV exposure	30 sec with UV exposure	1 - 2 J/cm² total exposure	UV	Clear	D75	-20 to 125	Electronic and industrial bonding	Metals, Glass, Ceramics, Plastic
	UV20GEL	One part, high-shear thinning, thixotropic paste designed for high mechanical shock protection and exceptional adhesion to variety of materials. Will cure rapidly with exposure to UV-light and develop high adhesion properties with ambient secondary moisture cure.	Urethane/ Acrylate	Thixotropic	-	-	UV exposure	30 sec with UV exposure	1 - 2 J/cm² /w secondary ambient moisture 48hrs	UV/moisture	Translucent	D15	-40 to 125	Electronics and industrial bonding and staking	Metals, Glass, Ceramics, Plastic
io es ut	UV20HV	One part, high-shear thinning and high viscosity, outstanding wetting properties, designed for high mechanical shock protection and exceptional adhesion to variety of materials. Will cure rapidly with exposure to UV-light and develop high adhesion properties with ambient secondary moisture cure.	Urethane/ Acrylate	75,000	-	-	UV exposure	30 sec with UV exposure	1 - 2 J/cm ² /w secondary ambient moisture 48hrs	UV/moisture	Translucent	D15	-40 to 125	Electronics and industrial bonding, staking, encapsulation	Metals, Glass, Ceramics, Plastic
in		ELECTRICALLY CONDUCTIVE ADHESIVES													
e,	1E31-G	One part, thixotropic, Silver filled epoxy system to be used as a solder replacement. Quick cure providing excellent electrical conductivity (3x10-4 Ω^* cm), high temperature and chemical resistance.	Ероху	Thixotropic	-	-	Heat exposure		2 hr @ 120°C	Heat	Silver	D80	-20 to 150	Solder Replacement	Metals, plastics
al Ih	2E32-G	Electrically conductive, silver filled epoxy adhesive paste recommended for bonding and sealing electronic applications which require a combination of good mechanical and electrical properties (3x10-4 Ω^* cm). Creates strong, durable, bonds between dissimilar materials. Complies with NASA's Outgassing Spec.	Ероху	650,000	700	100:6	30	60	24 hr @ RT or 1 hr @ 100°C	2 component with heat option	Silver	D85	-60 to 125	Solder Replacement	Metals, plastics
te	2E33-G	Long work life, two part, silver filled epoxy system designed to be used as a solder replacement. Thixotropic, cured at room temperature in 24-48 hours or accelerated with heat. Provides a high amount of flexibility, excellent electrical conductivity (1x10-4 Ω^* cm), and chemical resistance.	Ероху	Thixotropic	Thixotropic	1:1	100	180	24 hr @ RT or 1 hr @ 110°C	2 component with heat option	Silver	D40	-50 to 155	Solder Replacement	Metals, plastics

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A GLOBAL SOLUTION



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