



NEXUS

ADHESIVES



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 ResinDesigns™

www.ResinDesigns.com



PRODUCTS

TWO COMPONENT EPOXY ADHESIVES

- Room temperature and heat curing
- Typically superior chemical and temperature resistance
- High-performance device assembly

TWO COMPONENT POLYURETHANES

- Typically flexible and higher elongation capability
- Range of viscosities and hardnesses
- Excellent clarity possible

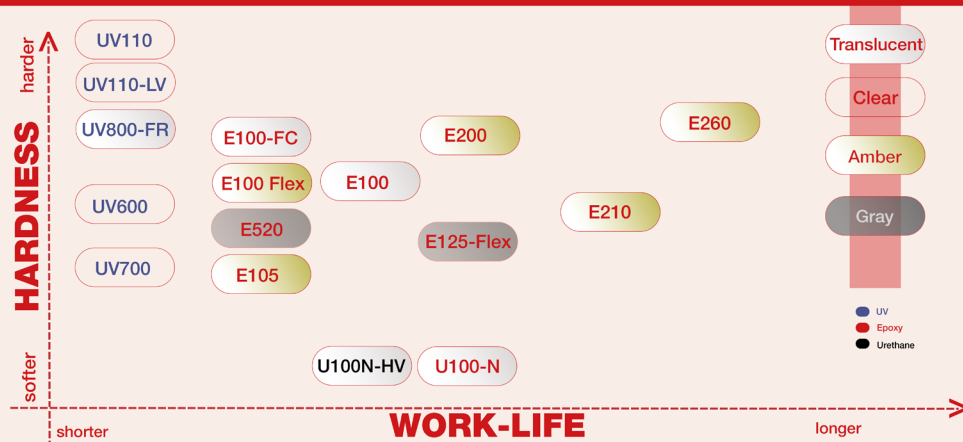
SINGLE & DUAL COMPONENT UV CURE

- Excellent chemical and environmental resistance
- Fast, simple curing mechanism for high volume and efficient assembly processes

CUSTOM FORMULATIONS

- Fast and efficient development
- All chemistries and cure types
- Offsets or new designs

HARDNESS/WORK LIFE SELECTOR



APPLICATIONS

- Electronics and electrical assemblies
- Automotive and white goods component assembly
- Aerospace
- Construction
- Wood, metals, glass and plastics bonding
- Pool, marine, and recreational device adhesion difficult to bond substrates

CONNECTING YOUR ENGINEERING AND DESIGN NEEDS WITH THE LATEST IN POLYMER SOLUTIONS



Resin Designs™, a division of Chase Corporation, manufactures a complete line of structural bonding adhesives designed to solve the complex challenges encountered in the production of assemblies and devices. Our Nexus® product line is produced in our fully ISO9001:2015 certified facilities so you can be assured of solutions that are of superior and consistent quality.

Our team of knowledgeable and dedicated polymer scientists have developed a wide range of products across numerous applications. We stand ready for potential customization for your specific needs. In addition, Resin Designs maintains manufacturing sites with the latest and most sophisticated production equipment and analytical testing devices. compliant.

PRODUCT	TYPE	MIXED VISC.	COLOR	HARDNESS	ELONG.	TENSILE	WORK LIFE	CURE TIME (25°C)	DESCRIPTION / NOTES
Nexus E100-FC	ER	11K to 15K	Clear	D80	15%	3800	4 min	1 to 6 hr	Fast curing, two part medium viscosity, 1:1 mix ratio system. Cures at room temperature, high strength bonds to a wide variety of substrates. Chemical resistant and excellent electrical insulator.
Nexus E100	ER	15K to 50K	Clear	D74	5%		5 min	12 hr	Two part epoxy system designed to be used for bond seal and/or repair applications. One to one mix ratio. Resistant to both physical shock as well as exposure to water and other potentially harmful chemicals.
Nexus E100-Flex	ER	10K to 13K	Amber	D75	75%	2500	4 min	48 hr	Mid-viscosity resin system designed for industrial adhesive applications. This two part epoxy is easily mixed, cures at room temperature, and provides high peel resistance and shear strengths. Once cured it is resistant to an extensive range of chemicals; is stable over a wide temperature range; passes UL94-HB. The cured material is hard, yet flexible, with a balance of strength and elongation.
Nexus E105	ER	22K to 40K	Amber	D55	80%	2700	4 min	3 hr	Two part epoxy. Medium viscosity, fast setting, and cures at room temperature. Clear bond lines with excellent peel strength. Resistant to a wide range of chemicals and solvents and is an excellent electrical insulator.
Nexus E125-Flex	ER	22K to 27K	Gray	D55	90%	2900	30 min	96 hr	Medium viscosity, two-part epoxy. Once cured, the epoxy has excellent adhesion to metal and plastic; high elongation and tensile strength. A hard epoxy for applications requiring moderate flexibility.
Nexus E200	ER	65K to 85K	Amber	D80	<10%	5000	30 min	24 hr	Two part epoxy system with room temperature cure. Two to one mix ratio product. Excellent moisture resistance and is ideal for high humidity environments. Excellent resistance to water, chemicals, and thermal and mechanical shock.
Nexus E210	ER	11K to 15K	Amber	D64 to D80	<10%	5400	60 min	24 hr	Two part epoxy system with range of mix ratios and hardness. High bond strength to wide variety of materials. Good electric insulator, resistant to gases, water, petroleum products, and acids.
Nexus E260	ER	65K to 75K	Amber	D80	<10%	5000	120 min	36 hr	Two part epoxy system. Room temperature curing, 2:1 mix ratio, excellent moisture resistance. Ideal for high humidity environments. Mechanical shock and chemical resistant.
Nexus E520	ER	65K to 105K	Gray	D55	30%	2300	5 min	4 hr	Able to mix, apply, and cure underwater. This product is a very versatile adhesive that will work on most applications. Repair vinyl pool liners, fiberglass, light rings, skimmers, main drains, concrete, pool tile and hose repairs. This compound is paintable and sandable.(Other colors available)
Nexus U100N	UR	5K	Clear	D40	200%	1100	9 min	24 hr	Two component (w/ heat option) cure, general purpose urethane. Low viscosity with 1:1 mix ratio. Medium hardness with good flexibility. Wide range of applications with bonding capabilities to multiple substrates.
Nexus U100N-HV	UR	27K to 65K	Clear	D40	220%	1500	7 min	24 hr	Two component (w/ heat option) cure, general-purpose urethane. Medium/High viscosity, thixotropic material. 1:1 mix ratio and long work life. Medium hardness with good flexibility. Wide range of applications with bonding capabilities to multiple substrates.
Nexus UV110	UV EP	12K	Clear	D87	4%	5200	UV cure		One component epoxy-based UV curable (w/heat option) adhesive. Designed for applications that require the cure speed of a UV polymer and the chemical resistance and high temperature performance of an epoxy.
Nexus UV110-LV	UV EP	2.5K	Clear	D80	4%	5000	UV cure		One component, low viscosity, epoxy-based UV curable (w/ heat option) adhesive. Designed for applications that require the cure speed of a UV active polymer and the chemical resistance and high temperature performance of an epoxy.
Nexus UV600	UV UR	7.5K	Clear	D60	22%	2400	UV cure		One component, fast curing urethane acrylate that bonds well to a wide variety of different substrates. This product requires direct UV exposure during cure.
Nexus UV700	UV UR	3K to 6K	Clear	D50	80%	1200	UV cure		One component, 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 plastics.
Nexus UV800-FR	UV UR	90K (thixo)	Trans-lucent	D80	60%	3000	UV cure		One component, fast curing flame resistant, UV curable urethane acrylate. Bonds to a wide variety of substrates. Fluoresces under black light for inspection. Passed UL94 V0 standard for flame resistance up to approximately 2mm thickness.

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11 State Street
Woburn, MA 01801 USA
+1 781-935-3133
Sales@resindesigns.com

HumiSeal®

www.HumiSeal.com

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