PFLAUMER

TERAMINE®

EPOXY HARDENERS

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TERAMINE®

EPOXY HARDENERS

HIGH-PERFORMANCE EPOXY HARDENERS: FROM FORMULATION TO APPLICATION

Pflaumer offers a complete line of epoxy amine hardeners engineered to transform liquid epoxy resins into tough, high-performance coatings and composites. Our portfolio includes aliphatic, cycloaliphatic, polyamides, modified aliphatic, modified cycloaliphatic, and additional specialty chemistries designed to deliver the cure speed, adhesion, chemical resistance, flexibility, heat resistance, and durability your application demands. Pflaumer is proud to provide curing agents designed for evolving global requirements, including Red List Free, nonylphenol-free, and benzyl alcohol-free solutions.

With deep technical expertise and proven formulating know-how, Pflaumer helps you select the right epoxy hardener solution for your application.

Versatile Protection for Any Substrate

Whether for commercial, industrial, or residential use, our hardeners are engineered to excel:

Concrete & Flooring: Achieve seamless, decorative, and easy-to-maintain finishes for floors, walls, and high-traffic spaces.

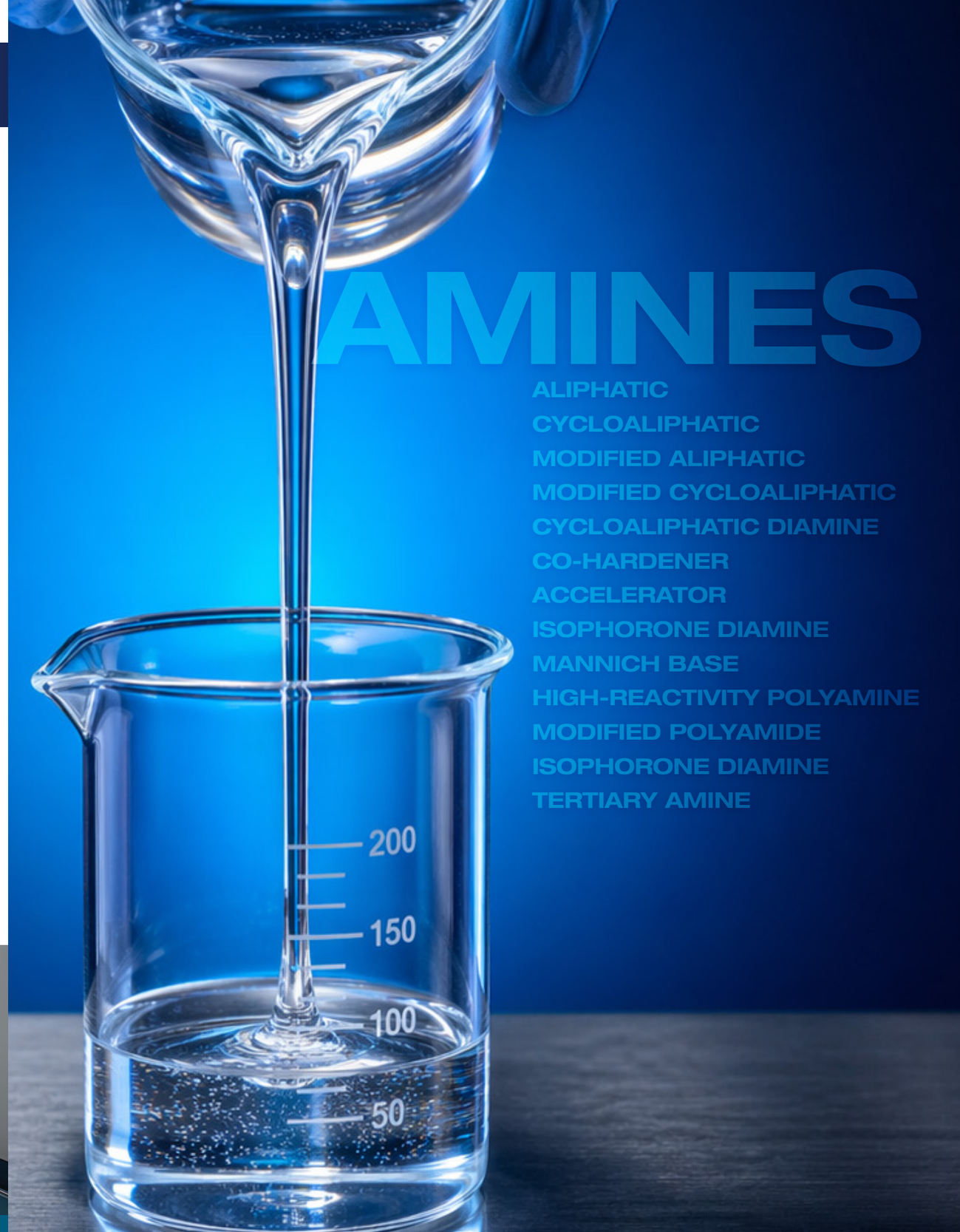
Metal & Infrastructure: Safeguard pipelines, storage tanks, and industrial equipment with superior adhesion and corrosion resistance.

Specialized Applications: From advanced composites to artistic creations, our chemistry adapts to your unique performance needs.

Your Complete Formulation Partner

We provide more than just hardeners. Pflaumer offers a full suite of additives and color concentrates to complete your system. Leverage our technical know-how to optimize your economics and achieve the exact flexibility, heat resistance, and adhesion properties your customers demand.

From Formulation to Application. Choose Pflaumer for unparalleled expertise in epoxy technology.



TERAMINE®

EPOXY HARDENERS

Commercially Available Hardeners

Curing Agent	Amine Type	Color (Gardner)	Viscosity (cps @ 25C)	Density (#/gal)	Amine Value (mgKOH/g)	Equivalent (WT/(H))	Use Level (phr)	Gel Time (E828)	Comments/Applications
TERAMINE® 71 ○	Aliphatic	<2	160-210	8.5-8.7	370-410	78	41	12	Fast curing. Designed primarily as a primer for 2:1 system. Bonds to damp concrete. Principal applications are for industrial flooring, mortars, and grouts.
TERAMINE® 90 ○	Aliphatic	<3	100-300	7.0-9.0	335-355	88	46	29	Fast cure under cold temperatures. Bonds to damp concrete. Principal applications are for industrial flooring coatings, flooring mortars and grouts.
TERAMINE® 180 ○	Aliphatic	<2	100-200	8.3-8.6	300-320	101	53	24	Moderate cure under cold temperatures. Bonds to damp concrete. Economical. Excellent chemical resistance. Principal applications are for Industrial floor coatings.
TERAMINE® 1151 ○	Aliphatic	<2	400-900	8.5-8.8	255-280	122	64	42	Non-blushing epoxy curing agent. Excellent surface appearance properties. Principal applications are for industrial flooring and industrial coatings.
TERAMINE® 52	Cycloaliphatic	<2	200-400	8.5-8.7	260-280	114	60	50	Excellent color stability and chemical resistance. Low viscosity. Non-blushing. Principal applications are for industrial flooring and industrial coatings.
TERAMINE® 115 ○	Cycloaliphatic	<2	500-900	8.5-8.7	255-280	118	62	53	Excellent color stability and chemical resistance. High gloss and non-blushing. Principal applications include industrial flooring and industrial coatings.
TERAMINE® 470 ◇	Cycloaliphatic Diamine	<1	120	7.8-8.0	458	60	32	400	Provides a longer pot life than other cycloaliphatic diamines. Used in higher temperature composite applications.
TERAMINE® 534 ◇	Cycloaliphatic Diamine	<1	80	7.9-8.1	526	52.5	28	180	Used to formulate epoxy curing agents. Low color and low viscosity. Alternative to aromatic diamines. Used in composites due to its high Tg.
TERAMINE® 583	Cycloaliphatic	<2	250-600	8.4-8.5	295-330	95	51	37	Primary curing agent, promotes crosslinking reactions that yield highly durable, chemical-resistant coatings and adhesives.
TERAMINE® 672 ◇	Cycloaliphatic	<2	50-150	8.6-8.7	285-305	95	50	30	Excellent adhesion to concrete, resistant to water spotting and blush. Principal applications are infrastructure and tank coatings.
TERAMINE® 48 ◇	Modified Aliphatic	<2	<50	7.6-7.9	580	48	25	21	Fast cure. Developed for 4:1 to 5:1 Terrazzo matrix. Principal applications are used in Terrazzo flooring.
TERAMINE® 72	Modified Aliphatic	<2	100-450	8.2-8.5	375-395	73	38	15	Fast cure under cold temperatures and bonds to damp concrete. Accelerator for other cycloaliphatic amines. Principal applications are industrial flooring and industrial coatings, mortars and grouts. Crack injections for mining applications.
TERAMINE® 76 ◇	Modified Aliphatic	<2	50-150	7.8-8.1	380-400	76	40	15	Fast cure speed even in cold temperatures and bonds to damp concrete. Low viscosity provides good flow and leveling. Amine hardener accelerator. Principal applications are for grouts, crack filling, industrial flooring and industrial coatings. Nonylphenol free.
TERAMINE® 88C	Modified Aliphatic	<2	10-100	8.2-8.4	345-365	87	46	28	Excellent blush resistance, low viscosity and chemical resistance. Principal applications are for industrial flooring and industrial coatings.
TERAMINE® 130 ○	Modified Aliphatic	2	300-500	8.5-8.7	310-340	92	48	17	Rapid setting, high gloss, low color. Principal applications are for industrial coatings.
TERAMINE® 144 □	Modified Aliphatic	<5	800-1000	7.9-8.1	190-210	188	99	37	Flexible curing agent. Principal applications include impact, tank and secondary containment coatings and flexible membrane coatings underneath Terrazzo matrix. Used as a 1:1 system. Benzyl alcohol free.
TERAMINE® 145 □◇	Modified Aliphatic	<4	150-300	7.9-8.1	190-210	188	99	36	Flexible curing agent. Principal applications include impact, tank and secondary containment coatings and flexible membrane coatings underneath Terrazzo matrix. Used as a 1:1 system. Benzyl alcohol and nonylphenol free version of Teramine 144.
TERAMINE® 182 ○	Modified Aliphatic	<2	100-200	8.1-8.4	280-310	98	52	24	Fast cure under cold temperatures. Bonds to damp concrete. Economical. Excellent chemical resistance. Nonylphenol free. Principal applications are for industrial flooring and industrial coatings.
TERAMINE® 244	Modified Aliphatic	<2	100-200	8.4-8.6	355-365	83	44	19	Medium speed hardener, pre-formulated with air release, flow and leveling additives. A workhorse hardener for economical applications.
TERAMINE® 608	Modified Aliphatic	<8	3000-5000	8.8-9.2	775-825	44	20	14	Ambient cure. Good resistance to Skydrol, solvents and alcohols. Excellent mechanical strength when used for adhesives and sealants.
TERAMINE® 633	Modified Aliphatic	<3	100-200	8.4-8.7	1000-1100	33	17	16	Low viscosity and fast cure. A 1:1 mix ratio with conventional epoxy resins. Works at ambient and elevated temperatures.
TERAMINE® 676 ◇	Modified Aliphatic	<2	150-300	8.2-8.4	355-365	97	51	10	Excellent blush resistance and chemical resistance. Medium cure time. Low viscosity for industrial flooring and industrial applications. 2:1 volume mix ratio with epoxy resin. Accelerated Teramine 76 technology.
TERAMINE® 700	Modified Aliphatic	<2	<150	7.8-8.2	710-730	51	27	27	Fast cure. N4-amine based hardener for 4:1 to 5:1 Terrazzo matrix. Principal applications are for Terrazzo matrix.
TERAMINE® 705	Modified Aliphatic	<2	<100	7.9-8.1	700-710	51	27	30	Very low viscosity. Compatible with Terrazzo marble, granite, glass and quartz. Excellent color stability and adhesion while providing rapid cure, and hardness, required for Terrazzo end-use technology.
TERAMINE® 710	Modified Aliphatic	<2	<200	7.8-8.2	700-720	48	25	35	Very low viscosity. Compatible with Terrazzo marble, granite, glass and quartz. Excellent color stability and adhesion while providing rapid cure, and hardness, required for Terrazzo end-use technology. Economical.
TERAMINE® 800 □◇	Modified Aliphatic	<2	400-700	7.8-8.2	780-820	51	27	34	Fast cure. Excellent color stability. Benzyl alcohol and nonylphenol free hardener for 4:1 to 5:1 Terrazzo matrix and patching repair and grouts.
TERAMINE® 912 ◇	Modified Aliphatic	<1	<100	8.0-8.1	240-250	112	59	57	Moderate cure speed. Excellent gloss retention, color stability, abrasion and chemical resistance. Principal applications are for industrial flooring and industrial coatings. Red List FREE.
TERAMINE® 914SF □	Modified Aliphatic	>5	300-2000	8.9-9.1	485-585	95	50	8	Curing agent used with bisphenol A and bisphenol F epoxy resins for 2:1 ratio. Super-fast cure speeds at ambient temperatures. Gel time 8 minutes. Nonylphenol and benzyl alcohol free.

◇ Red List Free ○ Nonylphenol-free □ Benzyl Alcohol-free

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Curing Agent	Amine Type	Color (Gardner)	Viscosity (cps @ 25C)	Density (#/gal)	Amine Value (mgKOH/g)	Equivalent (WT/(H))	Use Level (phr)	Gel Time (E828)	Comments/Applications
TERAMINE® 76R ◇	Modified Cycloaliphatic	<1	150-250	7.8-8.1	380-400	72	38	17	Fast cure speed even in cold temperatures and bonds to damp concrete. Amine hardener accelerator. Principal applications are for grouts, crack filling, industrial flooring and industrial coatings.
TERAMINE® 89 ○	Modified Cycloaliphatic	<2	100-600	8.3-8.5	335-355	87	46	42	Medium cure speed designed for a 2:1 system. High gloss and excellent chemical resistance. Principal applications are for industrial flooring and industrial coatings.
TERAMINE® 91 ○	Modified Cycloaliphatic	<2	200-600	8.35-8.55	330-380	87	46	96	Moderate cure speed. Excellent gloss retention, color stability, abrasion and chemical resistance. Principal applications are for industrial flooring and industrial coatings.
TERAMINE® 92 ○	Modified Cycloaliphatic	<2	50-150	8.4-8.6	300-320	93	49	67	Fast curing, low viscosity hardener for high gloss applications. Excellent blush and chemical resistance. 2:1 mix ratio. Principal applications are for industrial flooring and industrial coatings.
TERAMINE® 95 ○	Modified Cycloaliphatic	<1	<120	8.2-8.4	290-310	93	49	18	High color stability, low blush, and bonds to damp concrete. Medium cure speed. Principal applications are for grouts, industrial flooring and industrial coatings.
TERAMINE® 101	Modified Cycloaliphatic	<1	350-450	8.4-8.6	270-290	110	58	40	Moderate cure speed. Excellent yellowing resistance, color stability, and chemical resistance. Works well with metallic pigments. Principal applications are for industrial flooring and industrial coatings.
TERAMINE® 181	Modified Cycloaliphatic	<2	300-600	8.1-8.5	280-310	93	49	24	Fast cure under cold temperatures and bonds to damp concrete. Excellent chemical resistance. Principal applications are for industrial flooring and industrial coatings.
TERAMINE® 192	Modified Cycloaliphatic	<3	150-350	8.0-9.0	280-320	95	50	23	Work horse hardener. Low blush, excellent gloss, and fast water spot resistance. Principal applications are for industrial flooring and industrial coatings.
TERAMINE® 200	Modified Cycloaliphatic	<2	100-160	8.2-8.5	380-410	70	37	30	Low viscosity, low color, excellent color stability, and low blush. Principal applications are for industrial flooring and industrial coatings, castings and tank linings.
TERAMINE® 300 ○	Modified Cycloaliphatic	<1	250-350	8.4-8.6	295-305	100	53	70	Very low color and excellent color stability. High gloss and non-blushing. Excellent non-yellowing properties and chemical resistance. Principal applications are for industrial flooring and industrial coatings.
TERAMINE® 306	Modified Cycloaliphatic	<2	240-300	8.5-8.7	290-320	98	51	70	Very low color and excellent color stability. High gloss and non-blushing. Excellent non-yellowing properties and chemical resistance. Principal applications are for industrial flooring and industrial coatings.
TERAMINE® 335	Modified Cycloaliphatic	<2	100-300	8.3-8.5	325-345	87	45	55	Low viscosity hardener. Good flow and leveling characteristics, Principal applications are for industrial flooring and industrial coatings.
TERAMINE® 392 ○	Modified Cycloaliphatic	<2	40-80	8.3-8.5	300-360	87	46	41	Low viscosity. Moderate cure speed. Excellent color. Bonds to damp concrete in higher humidity environments. Economical. Principal applications are for industrial flooring and industrial coatings, grouts and crack repair. Nonylphenol free.
TERAMINE® 405 ◇	Modified Cycloaliphatic	<2	<100	8.1-8.3	400-410	68	36	35	For 3:1 epoxy system. Excellent color and chemical resistance. Compatible with metallic pigments. Principal applications are for industrial flooring and industrial coatings.
TERAMINE® 410 ○	Modified Cycloaliphatic	<2	100-300	8.25-8.45	410-430	70	37	46	For 3:1 epoxy system. Excellent color, color stability and chemical resistance. Applications are for industrial flooring and industrial coatings.
TERAMINE® 420 ○	Modified Cycloaliphatic	<2	90-320	8.25-8.45	410-430	70	37	46	For 3:1 epoxy system. Excellent color, color stability and chemical resistance. Economical. Applications are for industrial flooring and industrial coatings.
TERAMINE® 420C ○	Modified Cycloaliphatic	<2	90-320	8.25-8.45	410-430	70	37	38	For 3:1 epoxy system. PACM based. Excellent color, color stability and chemical resistance. Principal applications are for industrial flooring and industrial coatings.
TERAMINE® 519	Modified Cycloaliphatic	<2	150-250	8.7-8.9	290-315	95	50	34	For 2:1 epoxy system. Low-viscosity. Bonds to damp concrete. Medium cure rate hardener. Low VOC.
TERAMINE® 600 ◇	Modified Cycloaliphatic	<2	20-80	8.2-8.4	550-650	48	25	110	Designed to cure epoxy resins at elevated temperatures. Principal applications include fiber reinforced composites, including cured-in-place pipe, filament wound pipe, and resin transfer molding.
TERAMINE® 626 ◇	Modified Cycloaliphatic	<2	400-600	7.9-8.1	300-320	179	95	7	Fast cure. Used to speed up other hardeners. Excellent chemical and mechanical properties. Principal applications are for fiber reinforced composites such as cured-in-place pipe and fast-setting adhesives. Nonylphenol and benzyl alcohol free.
TERAMINE® 767	Modified Cycloaliphatic	<2	>5000	8.0-8.2	300-320	180	100	6	Fast cure. Used to speed up other hardeners. Excellent chemical and mechanical properties. Principal applications include fiber reinforced composites, such as cured-in-place pipe and fast-setting adhesives. Benzyl alcohol free.
TERAMINE® 890 ○	Modified Cycloaliphatic	<2	100-600	8.5-8.8	330-350	89	47	33	PACM based. Medium cure speed applications. Very good chemical resistance. Principal applications are industrial flooring coatings and ESD coatings.
TERAMINE® 910 ○	Modified Cycloaliphatic	<2	200-600	8.35-8.55	330-380	87	46	77	PACM based. Moderate cure speed. Excellent color, color stability, high gloss and chemical resistance. Principal applications are for industrial flooring coatings and industrial coatings.
TERAMIDE® 270	Modified Polyamide	<10	1000-2000	8.4-8.5	250-290	115	61	75-80	Epoxy curing agent for underwater and wet/damp applications for metal and concrete substrates. Excellent corrosion resistance, adhesion and flexibility. Principal applications are for industrial flooring coatings, industrial coatings and adhesives.
TERAMINE® 610	Tertiary Amine	<8	30-60	7.7-7.9	190-210	30	20	600-700	Low viscosity, epoxy curing agent activated at high-temperatures for composites, including cured-in-place pipe, electronics, potting and encapsulation applications.
TERAMINE® 654	Co-hardener or Accelerator	<6	125-250	8.1-8.3	610-640	N/A	N/A	45	Accelerator designed for use in epoxy coating systems. 2-5 phr as catalyst for coatings, 5-15 phr as homopolymerization catalyst.
TERAMINE® 659 ◇	Cycloaliphatic Diamine	<2	<100	7.4-7.6	650-670	43	22	70	Used to formulate epoxy curing agents for industrial flooring, marine, automotive, and protective maintenance applications. Intermediate used in polyamide resins and polyurea technologies. Used in adhesives, sealants, composites, and corrosion-resistant coatings.
TERAMINE® 825 ◇	Aliphatic Diamine	<1	N/A	8.7-8.8	825	34	20	41	Used to formulate epoxy curing agents for various applications across the CASE industry. Adds excellent chemical resistance. Cures at low temperatures.
TERAMINE® LPA-4 ◇	Aliphatic Diamine	<1	<100	7.8-8.0	1200-1300	29	15	41	Used to formulate epoxy curing agents, promoting crosslinking reactions that yield highly durable, chemical-resistant coatings and adhesives. Strong interfacial bonding. High reactivity makes it valuable in cold-cure or ambient-cure formulations. Fast return-to-service times without sacrificing coating integrity.

◇ Red List Free ○ Nonylphenol-free ▫ Benzyl Alcohol-free

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THERE'S ALWAYS MORE TO SEE FROM PFLAUMER

PFLAUMER PRODUCTS FOR HIGH-PERFORMANCE COATINGS

Pflaumer offers a wide variety of products to formulate high-performance coatings:

TERAMINE® Hardeners for Epoxies	A wide variety of hardeners for fast-cure, medium-cure, and slow-cure 2K epoxies
TERACHEM® 53-Colorants	Ready-to-use pigment dispersions of masstones and tints for 2K epoxies, polyurethanes, polyureas and polyaspartics
TERACURE® Aliphatic Polyisocyanates	Complete line of HDI-based biuret and trimer isocyanates
TERASPARTIC® Polyaspartic Amines	A variety of aspartic amine resins to provide slow, medium, and fast curing options
TERACURE® Aromatic Polyisocyanates	MDI-based aromatic isocyanates for polyureas and urethanes
TERACHEM® Polyols	Specialty polyols for urethane coatings
TERACHEM® Reactive Diluents	TERACHEM® A-140 for polyureas and polyaspartics
TERAFLEX® Non-Reactive Diluents	TERAFLEX® DME-200 for polyaspartics, polyurethanes, and polyureas
TERACHEM® Moisture Scavengers	Molecular sieve pastes for polyaspartics, polyureas, polyurethanes, and other applications
Intermediates and Modifiers	TERAMINE® A-136 cycloaliphatic secondary diamine for polyaspartics, epoxies, and polyureas; TALLICIN® 3001 extends pot life for urethanes and polyaspartics
TALLICIN® Wetting Agents, Dispersants, and Grinding Resins	A wide range of surfactants, wetting agents, and dispersants for both solvent-based and water-based formulations; TALLICIN® acrylic and modified-acrylic grinding resins
TALLICIN® Surface Tension Agents	A variety of bubble-release, flow and leveling modifiers for solvent-free polyaspartics, epoxies, and polyurethanes
TALLICIN® Catalysts	Tin based catalyst for polyurethanes
TERASIL® Single-Component Moisture-Cure Modified Hydrogel Silane	A modified hydrogel silane for moisture-cure coatings on a wide range of indoor and outdoor substrates, including metal, wood, concrete, plastics, and composites

NEED SAMPLES?

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1008 WHITEHEAD ROAD EXTENSION
EWING, NEW JERSEY 08638
P: 609-883-4610

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