

K A U F M A N

CONCRETE
TREATMENTS

K A U F M A N

AMERICAN OWNED
& MANUFACTURED

K A U F M A N

COMPANY MISSION STATEMENT

More than fifty years ago Kaufman Products, Inc. was founded on the belief that a chemical manufacturer could not only engineer and consistently produce high quality concrete treatments, but that we could also provide economical pricing. Competitive pricing and high-quality products are often thought to be diametrically opposed. However, the Kaufman Products business model proved that, in fact, this goal is both possible and ideal. Our company has prospered as we developed a reputation within the industry for top-notch quality and competitive pricing.

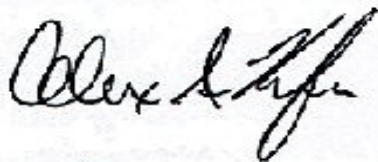
While we still practice those principles, today's world requires more than just high-quality and low-cost products. We've augmented our mission to distinguish our products from those of our competitors. We overstock our product line so that customers can have near-immediate availability. Our warehouse regularly contains a stock of more than 40,000 gallons of epoxy-resin systems, 70,000 gallons of form release agents, and more than 100,000 gallons of curing & sealing compounds. To help our customers with time-sensitive needs we've placed warehouses strategically throughout the United States. Kaufman Products spares no cost in developing new lines and in manufacturing existing products. We use cutting edge technology in our plant to engineer products efficiently and accurately. It's no wonder that our business partners rarely face undue lead times for stocking items. We are extremely proud of the fact that 95% of all orders ship within 3 working days.

Kaufman Products continues to lead our industry in safety. We are the first manufacturer to introduce water-based curing/curing & sealing compounds. Our dedication to protect laborers is unparalleled. In addition, Kaufman Products provides the newest GHS-mandated safety data information on every product label to reduce the risk of misuse, accidents, and liability. Finally, we've made complete Safety Data Sheets and explicit directions available online to assist users with safe and high- performance protocols.

Creating safe conditions is only part of our story, as Kaufman Products also remains dedicated to the use of recycled or waste-stream materials to protect the environment. To this end, we use recycled plastic pails and re-conditioned drums and totes. Furthermore, we have incorporated into our formulas many waste-stream materials to provide credits related to the LEED construction movement. Many of our materials, in fact, have greater than 20% recycled and waste-stream ingredients and packaging, which provides the greatest credits for business owners desiring the highest level of green construction practices.

All of our products are manufactured in our own plant, thereby providing numerous advantages to our customers. High quality can be insured, costs can be contained, and we are in control of the production times for finished goods. Rather than rely on a private labeler, we take the extra step to insure that our products are finished accurately.

We take pride in being one of the few American manufacturers in our marketplace. Since 1963, we have remained a family business, committed to working with our business partners as if they were part of our extended family. At Kaufman Products we are dedicated to manufacturing top-quality materials in order to meet the needs of our customers—our most important asset.



Alex S. Kaufman
President

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REPAIR RESURFACE

Epoxy-Based

	Description	Uses	Pkg/Yield
SurePoxy 110	100% solids, 2 component, moisture insensitive, high modulus, rigid epoxy adhesive. Grey in color.	Recommended as a bonding agent to bond fresh concrete to old.	1 gal. unit 2 gal. unit 10 gal. unit
SurePoxy HM	100% solids, two-component, high modulus, rigid epoxy adhesive. Insensitive to moisture.	Use neat to bond fresh concrete to hardened concrete.	3/4 gal. unit 3 gal. unit 15 gal. unit 16.5 oz. cartridge
SurePoxy HM, Class B	Cold weather version of our 100% solids, two-component, high-modulus, rigid epoxy adhesive. Insensitive to moisture.	Use neat to bond fresh concrete to hardened concrete.	3/4 gal. unit 3 gal. unit 15 gal. unit
SurePoxy HMLV	100% solids, two-component, high modulus, rigid epoxy adhesive. Low viscosity.	Use as a binder mixed with aggregate to produce a mortar or grout. Also, for gravity feeding of cracks.	3/4 gal. unit 3 gal. unit 15 gal. unit 16.5 oz. cartridge
SurePoxy HMLV, Class B	Cold weather version of our 100% solids, two-component, high modulus, rigid epoxy adhesive. Low viscosity.	Use as a binder mixed with aggregate to produce a mortar or grout.	.75 gal. unit 3 gal. unit 16.5 oz. cartridge
SurePoxy HMLV EPL	100% solids, high modulus, low viscosity epoxy resin system with the added benefit of an extended pot life.	Ideal for use when pumping an epoxy mortar or grout.	3 gal. unit 15 gal. unit
SurePoxy HMSLV	100% solids, two-component, high modulus, rigid epoxy adhesive with an extremely low viscosity.	Use for high or low pressure injection or gravity feeding into cracks in concrete. May also be used as a penetrating sealer	3/4 gal. unit 3 gal. unit 15 gal. unit 16.5 oz. cartridge
SurePoxy HM Gel	100% solids, two-component, high modulus, rigid epoxy adhesive. Insensitive to moisture.	Use overhead or vertical up to 3" in a single lift.	3 gal. unit 15 gal. unit 16.5 oz. cartridge
SurePoxy HM EPL	100% solids, three-component, high modulus, rigid epoxy adhesive. Moisture insensitive. Extended open time	Designed for applications where an extended open time is required. Excellent for use as a bonding agent and rebar coating.	2.00 gal. unit 37 lbs. aggregate
SurePoxy HM 24	Three-component, water-dispersed, high modulus epoxy adhesive.	Designed for applications where an extended open time is required. Excellent as a bonding agent and rebar coating	1.30 gal. unit 45 lbs. aggregate
SurePoxy 117	100% solids, 2 component, high modulus, quick setting non-sag gels. Moisture insensitive.	Grouting bolts, dowel bars, anchors, etc. Use all year round, indoor or outdoor.	2 gal. unit 10 gal. unit 22 oz. cartridge
SurePoxy 116	100% solids, 2 component, high modulus, quick setting non-sag gels. Moisture insensitive. Ideal down to 40° F.	Grouting bolts, dowel bars, anchors, etc. Use all year round, indoor or outdoor.	2 gal. unit 10 gal. unit 22 oz. cartridge

REPAIR RESURFACE

Epoxy-Based

	Description	Uses	Pkg/Yield
SurePoxy DBA	100% solids, two-component, high modulus, epoxy gel. Moisture insensitive.	Grouting bolts, dowel bars, anchors, and as a concrete crack sealer.	2 gal. unit 10 gal. unit 22 oz. cartridge
SurePoxy LM	100% solids, two-component, low modulus, modest stress relieved epoxy adhesive. Gives under stress of impact and thermal cycling.	Use as a binder with aggregate to make a mortar or grout.	2.00 gal. unit 10.00 gal. unit
SurePoxy LMLV	100% solids, two-component, low viscosity, low modulus epoxy. Gives under stress of impact and thermal cycling.	Use as a penetrating sealer or as a binder in a mortar or grout.	3.00 gal. unit 15.00 gal. unit
SurePoxy LM Gel	100% solids, two-component, low modulus, modest stress relieved epoxy gel adhesive. Gives under stress of impact and thermal cycling.	Gel for use overhead and vertical repairs.	3/4 gal. unit 3 gal. unit 15 gal. unit
SurePoxy VLM SurePoxy VLM, Class B	100% solids, two-component, very low modulus epoxy resin system. Class B for faster set and colder temperatures.	Use for adhering skid resistant materials to concrete, ie. bridge deck overlays.	2 gal. unit 10 gal. unit
SurePoxy VLMLV	100% solids, two-component, very Low modulus, low viscosity epoxy	Ideal for sealing porous concrete and as a binder in stress relieved patching.	2 gal. unit 10 gal. unit 110 gal. unit
SurePoxy VLM Gel	100% solids, two-component, very low modulus epoxy gel.	Use for overhead/vertical applications.	3 gal. unit 15 gal. unit
SurePoxy Mortar	Factory proportioned, stress relieved epoxy mortar. Just mix and use. Insensitive to moisture, during and after cure. Meets: SS-C-1302, Type II, Cls. A & B	Resurface, patch, level and repair concrete surfaces for higher chemical and abrasion resistance when compared to cementitious patches.	5 gal. pail 20 ft ² @1/4" thick
SurePoxy Flexijoint	Gray, semi-rigid, two-component, 100% solids epoxy joint sealant.	To fill cracks and joints to protect against edge deterioration from heavy traffic	22 oz. cartridge 1 & 2 gal. units 10 gal. unit
K Pro Flexijoint	Rapid setting, semi-rigid, moisture insensitive, urea modified polymer joint sealant.	Designed to support and protect joint edges on control and construction joints. Self leveling, fast setting and shaveable.	22 oz. cartridge 1 gal. unit 2 gal. unit 10 gal. unit
K Pro UC System	100% solids, 2-component epoxy system for application to surfaces underwater. K Pro UC Binder K Pro UC Gel	Protects steel and concrete surfaces in tidal and splash zones as well as above water. Can be applied to thoroughly wet surfaces.	2 gal. unit 10 gal. unit

EPOXY RESIN ADHESIVES
ASTM DESIGNATION: C-881-10
AASHTO DESIGNATION M-235

			CLASSES	A	B	C	
TYPES I & IV	GRADE 1	SurePoxy LMLV ³				•	
		SurePoxy HMLV, Class B		•		• ¹	
		SurePoxy HMLV				•	
		SurePoxy HMLV EPL ²				•	
	GRADE 2	SurePoxy HM SLV			•		
		SurePoxy HM EPL ²			•		
		SurePoxy HM					•
		SurePoxy LM ³					•
		SurePoxy HM, Class B			•		• ¹
	GRADE 3	K Pro UC Binder					•
		SurePoxy HM Gel					•
		SurePoxy LM Gel ³			•		
		SurePoxy 117 ¹			• ¹		• ¹
		SurePoxy 116 ¹			• ¹		• ¹
		SurePoxy DBA					•
		K Pro UC Gel					•
		SurePoxy 110					•
TYPES II & V	GRADE 1	SurePoxy HiBild				•	
		SurePoxy LMLV ³				•	
		SurePoxy HMLV, Class B,			•		• ¹
		SurePoxy HMLV					•
		SurePoxy HMLV EPL ²					•
		SurePoxy HM SLV					•
		SurePoxy LMLV ³					•
	GRADE 2	SurePoxy Mortar					•
		SurePoxy HM EPL ²					•
		SurePoxy LM					•
		SurePoxy HM, LM					•
	GRADE 3	SurePoxy HM, Class B					• ¹
		SurePoxy HM Gel					•
		SurePoxy LM Gel ³					•
		SurePoxy 117 ¹			• ¹		• ¹
		SurePoxy 116 ¹			• ¹		• ¹
		SurePoxy DBA					•
TYPE III	GRADE 1	SurePoxy VLMLV				•	
	GRADE 2	SurePoxy VLM				•	
		SurePoxy VLM, Class B			•		• ¹

Definitions:

- Type I** - For use in non-load bearing applications for bonding hardened concrete to hardened concrete and other materials and as a binder in epoxy mortars or epoxy concretes.
- Type II** - For use in non-load bearing applications for bonding freshly mixed concrete to hardened concrete.
- Type III** - For use in bonding skid resistant materials to hardened concrete, and as a binder in epoxy mortars or epoxy concretes used on traffic bearing surfaces (or surfaces subject to thermal or mechanical movements.)
- Type IV** - For use in load-bearing applications for bonding hardened concrete to hardened concrete and other materials and as a binder for epoxy mortars and concrete.
- Type V** - For use in load-bearing applications for bonding freshly mixed concrete to hardened concrete.
- Type VI** - For bonding and sealing segmental pre-cast elements with internal tendons and for span-by-span erection when temporary post tensioning is applied.
- Type VII** - For use as a non-stress carrying sealer for segmental pre-cast elements when temporary post tension is not applied as in span-by-span erection.

- Grade 1** – Low Viscosity
- Grade 2** – Medium Viscosity
- Grade 3** – Non-sagging consistency

- Class A** < 40°F.
- Class B** 40° – 60°, but tested at 53°F.
- Class C** >60°F.but tested at 73°F.

1 Modified for faster set time.
2 Modified for slower set time.
3 Types I and II only.

REPAIR RESURFACE

Latex-Based

	Description	Uses	Pkg/Yield
Patchwell Kit	Two component, polymer modified, cementitious resurfacing kit. Resistant to mild acids, alkalies and water. Prepackaged in its own mixing pail. Self-curing. Includes our migrating corrosion inhibitor for long-lasting, quality repairs. Meets: SS-C-1302 Type I, Class A	Level, resurface up to ½" thick. Water and chemical resistant. High strength, economical material. The best general purpose horizontal resurfacer.	5 gal. pail containing: 40# powder & 1 gal. liquid 40 ft ² @ 1/8"
Patchwell Deep Patchwell Deep Light	One component, polymer modified structural repair mortar for areas 2" down to 1/4". Self-curing. Can be extended with pea gravel for deeper patches. Includes our migrating corrosion inhibitor for long-lasting, quality repairs.	Resurface and repair deep areas of horizontal concrete. High strength and user friendly. Available in standard medium gray and light gray.	50# bag .45 ft ³ 6.25 ft ² @1"
Patchwell VO	Cementitious, one-component polymer modified repair mortar with added thixotropic agents to impart non-sag properties. Includes our migrating corrosion inhibitor for long-lasting, quality repairs. Meets: SS-C1302 Type I, Class A	Use to resurface overhead and vertical surfaces up to 2½" thick in a single lift.	50# bag .45ft ³ 6.25 ft ² @1"
Patchwell Patchwell Light	Single-component, silica-fume enhanced dry latex-modified, cementitious blend, ready to use with the addition of only water. Includes our migrating corrosion inhibitor for long-lasting, quality repairs.	Designed for patching, skim coating or resurfacing concrete. Use from ½" down to feather-edge on horizontal surfaces. Available in medium or light gray	50# bag 12.5 ft ² @ 1/2" 25 ft ² @1/4"
DressUp	Polymer modified finishing compound for masonry walls that provides water repellency. Light color to simulate hand rubbed concrete color. Contains adhesive and bonding agents for maximum strength.	Decorative treatment painted or troweled on concrete to eliminate rubbing and uneven discoloration.	5 gal. pail containing: 40# powder & 1 gal. liquid 40 ft ² @ 1/8" 50# bag 50 ft ² @1/8"
HiCap PM 5 HiCap PM15 HiCap PM 30	HiCap PM is a line of quick setting latex modified cementitious patching & finishing compounds. Available in set times of 5, 15, & 30 minutes. In addition all versions are available in shades of gray to match the concrete being repaired.	Combined with water, an excellent choice to repair broken, chipped and spalled areas of concrete. Ideal for precast and pre-stressed concrete repair.	500# drum 50# bag 50# pail .45 ft ³ /50# unit

REPAIR RESURFACE

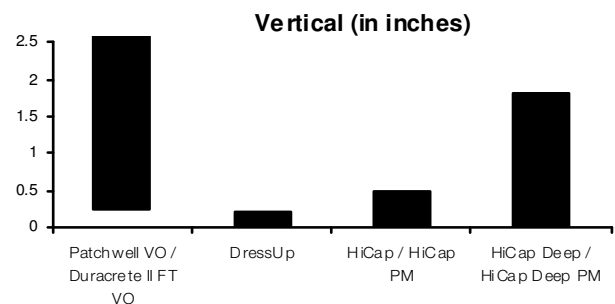
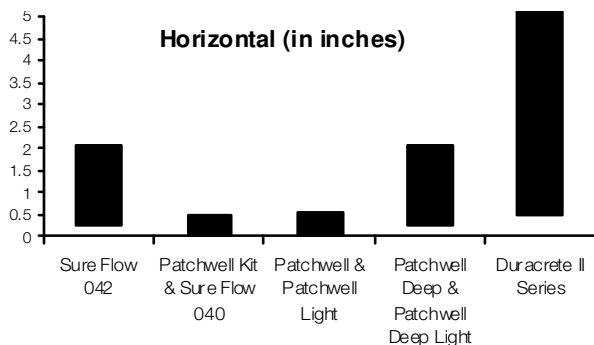
Latex-Based
Cement-Based

	Description	Uses	Pkg/Yield
SureFlow 042	A polymer-modified, single component cementitious, self-leveling wear topping. Very durable overlay with over 8,000 psi. compressive strength. Available in colors by special order only.	Repair, smooth & level uneven surfaces. Leave exposed or cover with finished flooring. Single lifts 2" to ¼", without the addition of aggregate. Ideal for exterior environments, and wear surfaces.	52# bag .46 ft ³ unit 12.7 ft ² @ ½" 25 ft ² @ ½"
SureBond	Acrylic adhesive and admixture for concrete, stucco or mortar. Water resistant. Excellent for exterior use. When added to cementitious mixes, It increases adhesive and cohesive strength, abrasion resistance and durability. Resistant to mild acids, alkalis and water. Meets: SS-C-1302 ASTM C-932, Type II Dye optional	As a bonding compound to increase the adhesion of toppings and patches. As an admixture to increase adhesion and strength. Recommended for all products, troweled to feather edge.	55 gal. drum 5 gal. pail 4/1 gal./case Bonding compound: 80-150 ft ² /gal. Admixture: 1-2 gal./bag cement
SureWeld	High solids, polyvinyl acetate bonding compound. Can be topped any time within 30 days after application. Re-emulsifiable (Re-wettable). Meets: MIL B-19235 ASTM C-631 ASTM C-1059, Type I	To bond concrete toppings to existing slabs. Bonding & patching compound for plaster and other sound surfaces such as brick, concrete masonry, wood & masonite.	55 gal. drum 5 gal. pail 4/1 gal. case 150-300 ft ² /gal.
<i>Cement Based</i>			
HiCap	Rapid setting, carvable patching compounds. Available in three shades of gray (light, medium and dark) for each set time of 5, 15, and 30 minutes. Deep versions available.	Specially designed for pre-cast and pre-stressed concrete repair, as well as, curb & gutter and balconies. Three colors to match existing concrete.	500# drum 50# bag 50# pail .45 ft ³ /50#
HiCap UW	Special HiCap version with an anti-washout additive designed to facilitate underwater concrete restoration.	Structural & cosmetic concrete repairs in underwater conditions. Marine, tunnels, pipes & other similar environments.	500# drum 50 # bag .45ft ³ /50# bag
HiCap FT	Rapid Setting, carvable repair mortar with increased resistance to freeze-thaw cycling and deicing chemicals.	Structural & cosmetic concrete repairs where added resistance to exterior conditions is needed.	500 # drum 50 # bag 50 # pail
PipeWipe Light PipeWipe Medium PipeWipe Dark	Cement finishing compound available in three shades of gray. Fills minute voids to create a uniformly colored and smooth surface.	Ideal for wiping or painting on the bells of concrete pipe to fill all minor imperfections. Excellent for improving the surface finish of pre-cast concrete.	50# bag 50# pail .45 ft ³ /50#

REPAIR RESURFACE

Cement-Based

	Description	Uses	Pkg/Yield
SurePlug	Fast setting, durable, high strength, water resistant hydraulic cement, water plugs. Non-staining. Available in 3 versions: Fast, Regular & Slow	Stops running water in underground concrete. Fast setting grout. Manhole repairs.	50# pail 15# pail 10# pail .45 ft ³ /50#
SureFlow 040	Dry cementitious blend that when mixed with water, produces a pourable or pumpable, self-leveling floor underlayment. Light duty wearing surface.	Level, smooth or resurface damaged, spalled or otherwise rough and uneven surfaces prior to covering with other finished flooring.	50# bag 55 ft ² @ 1/8"
Duracrete II Duracrete II FR	Very rapid setting, portland cement based concrete repair mortar. Available with or without fiber reinforcing. All version contain a migratory corrosion inhibiting agent. Meets: ASTM C-928 (R3)	Repair concrete from 8" to 1/2". Ideal for parking garages, bridges, roadways, sidewalks, runways, and other types of exterior work.	50# bag .45 ft ³ /bag
Duracrete II FT	Very rapid setting, portland cement based concrete repair mortar. specially designed for increased resistance to freeze-thaw cycling & deicing chemicals. Meets: ASTM C-928 (R3)	Repair concrete from 8" to 1/2". Ideal for parking garages, bridges, roadways, sidewalks, runways, & other types of concrete exposed to deicing chemicals.	50# bag .45 ft ³ /bag
Duracrete II FT VO	Very rapid setting, portland cement based repair mortar for vertical & overhead applications where rapid strength gain is required.	Repair concrete in vertical & overhead applications from 2.5" 1/2" in a single lift, with over 2,500 psi. in 2 hours. Meets ASTM C-928 (R3)	50# bag .45 ft ³ /bag
SureShot	Single component, fiber reinforced, microsilica enhanced dry mix shotcrete that includes fibers and a migrating corrosion inhibiting agent.	Ideal for use on parking garages, bridges, tunnels, mines, underground utility structures, dams, piers, marine structures, and beams.	50# bag 80# bag 3000# bag
SureShot WR	Single component, fiber reinforced, microsilica enhanced dry mix shotcrete. Enhanced water repellency.	Ideal for use in parking garages, bridges, dams, piers, & marine structures.	50# bag 3,000# bag



GROUTS / AGGREGATES

	Description	Uses	Pkg/Yield
K Pro HP Grout	Factory proportioned, self-leveling, deep pour epoxy grout. Non-shrink, extremely high strength and chemical resistant. Meets: ASTM C-881, Types I, II, IV & V, Grade 1, Classes B & C AASHTO M-235, Types I & II, IV & V: Grade 1, Classes B & C	Use whenever quick strength gaining and impact resistant epoxy grout is desired. May be placed in single lifts of 18". Ideal for base plate grouting.	Kit: ¼ gl. epoxy & 32.5# aggregate .30 ft ³ /kit 3 gl. epoxy unit w/ 3 (40#) bags Yields 1.2 ft ³ 4.5 (40#) bags Yields 1.6 ft ³
SureGrout	Premixed, dimensionally stable, non-shrinking, precision, non-metallic grout. Use fluid, dry-pack or regular. Pumpable and high strength. Meets: ASTM C-109, C-1107, C-827 and CRD C-621	Cable ducts, horizontal joints and grouting beds between pre-cast and pre-stressed members, anchor bolts, dry packing joints, column grouting, base plates.	50# bag .45 ft ³ /bag 3,000# bag 1 yd ³
SureGrout HiFlow	Premixed, non-shrinking, high flow cementitious grout.	Use wherever a high flow grout is required. Base plates.	50 # bag .45 ft ³ /bag
SureGrout 106	Premixed, air-entrained, non-shrink and non-metallic grout.	Shear key applications, use where a pumpable grout is required.	50 # bag .45 ft ³ /bag
SureGrout UW	Cementitious, water-displacing, self-curing, non-shrinking grout. Very high strength.	Ideal for use underwater in pile jacketing or structural marine repairs.	50# bag .45 ft ³ /bag
SureGrout Plus	Non-shrink, pre-mixed, non-metallic, cementitious grout. Contains silica-fume to produce a denser material.	Ideal for areas exposed to salt and other contaminants. Minimal electrical conductance.	50# bag .45 ft ³ /bag
SureGrout Met	Ready to use metallic iron grout. Develops over 8,000 psi. Use fluid, dry pack, or regular.	Grout beds, columns and base plates.	67# bag .5 ft ³ /bag
SureGrout Met Aggregate	Pure iron aggregate for making metallic grout on the jobsite.	Use wherever metallic grout is desired to be mixed in the field.	50# bag
SurePoxy Mortar Aggregate	Washed and dried blend of various sizes to produce an interlocking matrix.	Use to produce an epoxy mortar system.	50# bag
SurePoxy Grout Aggregate	Washed & dried blend of 3/8" pea and coarse sand.	Use to produce an epoxy grout system.	50# bag
K Pro HP Grout Aggregate	Special aggregate blend of circular sands.	Flowable aggregate for base plate and self-leveling work.	40# bag

CURING COMPOUNDS

CURING & SEALING COMPOUNDS







	Description	Uses	Pkg/Yield
Krystal 15 Emulsion EF	Water-emulsion, 15% solids acrylic curing compound. Very low odor. Earth Friendly. Guaranteed not to yellow. Meets: ASTM C-309, Type 1, Classes A&B AASHTO M-148, Type 1, Classes A & B	Ideal for all decorative and exterior concrete. Low odor makes it especially well suited for indoor applications.	55 gal. drum 5 gal. pail 1 gal. pail 200-400 ft ² /gal.
Krystal 25 Emulsion EF	25% solids, water-emulsion, acrylic curing & sealing compound. Very low odor. Guaranteed not to yellow. Earth Friendly. Meets: ASTM C-309, Type 1, Classes A&B AASHTO M-148, Type 1, Classes A & B ASTM C-1315, Type 1, Class A	Exposed aggregate, pavers, stamped concrete, and other surfaces are protected and colors are enhanced. Ideal for exterior concrete, and indoor applications because of the very low odor.	55 gal. drum 5 gal. pail 1 gal. pail 250-400 ft ² /gal.
Krystal 15 Emulsion	Low solids, solvent-emulsion, acrylic curing compound. Guaranteed not to yellow. Meets: ASTM C-309, Type 1, Classes A&B AASHTO M-148, Type 1, Classes A & B	Ideal for all decorative and exterior concrete. Most economical non-yellowing curing compound.	55 gal. drum 5 gal. pail 1 gal. pail 200-400 ft ² /gal.
Krystal 25 Emulsion	25% solids, solvent emulsion, acrylic curing & sealing compound. Guaranteed not to yellow. Meets: ASTM C-309, Type 1, Cls. A&B AASHTO M-148, Type 1, Classes A & B ASTM C-1315, Type 1, Class A	Exposed aggregate, pavers, stamped concrete and all decorative concrete.	55 gal. drum 5 gal. pail 1 gal. pail 250-400 ft ² /gal.
Krystal 30 Emulsion	30% solids, solvent emulsion, acrylic curing & sealing compound. Guaranteed not to yellow, freeze-thaw stable, and compatible with carpet & tile mastics. Meets: ASTM C-309, Type 1, Cls. A & B ASTM C-1315, Type 1, Class A	Exposed aggregate, pavers, stamped concrete, and all decorative concrete.	55 gal. drum 5 gal. pail 1 gal. can 250-400 ft ² /gal.
Krystal 25	Top of the line 25% solids, solvent-based, acrylic curing & sealing compound. Guaranteed to never yellow. Meets: ASTM C-309, Type 1, Classes A&B AASHTO M-148, Type 1, Classes A & B ASTM C-1315, Type 1, Class A	Exposed aggregate, pavers, stamped concrete, and all other decorative surfaces. Colors are enhanced. Ideal for exterior concrete.	55 gal. drum 5 gal. pail 1 gal. pail 250-400 ft ² /gal.
Krystal 30	Top of the line 30 % solids, solvent-based, acrylic curing & sealing compound. Guaranteed to never yellow. Meets: ASTM C-309, Type 1, Classes A & B and ASTM C-1315, Type 1, Class A	Exposed aggregate, pavers, stamped concrete, and all other decorative surfaces. Colors are enhanced. Ideal for exterior concrete.	55 gal. drum 5 gal. pail 1 gal. pail 250-400 ft ² /gal.

CURING COMPOUNDS

CURING & SEALING COMPOUNDS

	Description	Uses	Pkg/Yield
Krystal 25 OTC	Solvent based, 25% solids curing & sealing compound that will not yellow and meets both the EPA & AIM VOC laws. Meets: ASTM C-309, Type 1, Cls. A&B ASTM C-1315, Type 1, Class A	Exposed aggregate, pavers, stamped concrete, and all other decorative surfaces. Colors are enhanced. Ideal for exterior use.	55 gal. drum 5 gal. pail 1 gal. pail 250-400 ft ² /gal.
Krystal 30 OTC	Solvent based, 30% solids curing & sealing compound that will not yellow and meets both the EPA & AIM VOC laws. Meets: ASTM C-309, Type 1, Cls. A&B ASTM C-1315, Type 1, Class A	Exposed aggregate, pavers, stamped concrete, and all other decorative surfaces. Colors are enhanced. Ideal for exterior use.	55 gal. drum 5 gal. pail 1 gal. pail 250-400 ft ² /gal.
Krystal 25 PCBTF	Solvent based, 25% solids curing & Sealing compound that will not yellow and Meets both the EPA & AIM VOC laws. Safest legal solvent allowed-not Red Label. Meets: ASTM C-309, Type 1, Cls. A & B And ASTM C-1315, Type 1, Class A.	Exposed Aggregate, pavers, stamped concrete, and all other decorative surfaces. Colors are enhanced. Ideal for exterior use	55 gal. drum 5 gal. pail 250-400 ft ² /gal.
Krystal 30 PCBTF	Solvent based, 30% solids curing & Sealing compound that will not yellow and Meets both the EPA & AIM VOC laws. Safest legal solvent allowed-not Red Label. Meets: ASTM C-309, Type 1, Cls. A & B And ASTM C-1315, Type 1, Class A.	Exposed Aggregate, pavers, stamped concrete, and all other decorative surfaces. Colors are enhanced. Ideal for exterior use	55 gal. drum 5 gal. pail 250-400 ft ² /gal.
DR Cure	Economical, clear, dissipating curing compound. Easily removable prior to application of coatings with EasiKleen EM. Meets: ASTM C-309, Type 1, Classes A & B AASHTO M-148, Type 1, Classes A & B	Ideal for surfaces to receive coatings, sealers & other toppings that require a surface free of curing compound. Less labor to remove than normal.	55 gal. drum 5 gal. pail 150-200 ft ² /gal.
Thinfil Series	Designed to comply with various state and federal specifications. Available clear, clear with fugitive dye and white pigmented. All versions are VOC compliant. Meets: ASTM C-309, Types 1 & 2, Cls. A&B AASHTO M-148, Types 1 & 2, Cls. A&B	Highway paving, sidewalk, curb, gutter, airport runways, parking areas. Outdoor use only. Most state and government specifications. Thinfil 420 is the dissipating type.	5,000 gal. bulk 275 gal. tote 55 gal. drum 5 gal. pail 50-200 ft ² /gal.
Silicure	Sodium silicate in water solution. Curing aid. Ready to use. Also available concentrated and with dye.	Curing aid; hardens the concrete surface. Compatible with carpet/tile mastics, and most coating systems.	55 gal. drum 5 gal. pail 400 ft ² /gal.
SilaneSeal	Two in one product that is both a curing aid and penetrating sealer. The acrylic-siloxane blend penetrates into the surface and creates a denser, harder, dustproof surface.	For use on decorative and traditional concrete. Also works well on exposed aggregate concrete, terrazzo, stone and unglazed tile.	55 gal. drum 5 gal. pail 1 gal. can 100-500 ft ² /unit.
SurePoxy Protective Coating WD	A two-component, water-dispersed epoxy coating that serves as a curing & sealing compound for green concrete. Meets: ASTM C-309 & C-1315	Use as a curing compound and epoxy sealer, without the need for expensive surface preparation. Indoor and outdoor use.	2 gal. unit 10 gal. unit 200 ft ² /gal.

Curing/Curing & Sealing Compounds Quick Reference Guide

KAUFMAN PRODUCTS	ASTM C-309	ASTM C-1315	SOLVENT/WATER	SOLIDS CONTENT	FREEZE THAW STABLE	CARPET-TILE MASTICS	LEED SYSTEM APPROVAL	AIM	EPA
Krystal 15 Emulsion EF	TYPE 1 CLASS B	N/A	WATER	15%	YES	YES		YES	YES
Krystal 25 Emulsion EF	TYPE 1 CLASS B	TYPE 1 CLASS A	WATER	25%	YES	YES		YES	YES
Krystal 15 Emulsion	TYPE 1 CLASS B	N/A	WATER	15%	YES	YES		YES	YES
Krystal 25 Emulsion	TYPE 1 CLASS B	TYPE 1 CLASS A	WATER	25%	YES	YES		YES	YES
Krystal 30 Emulsion	Type 1 CLASS B	TYPE 1 CLASS A	WATER	30%	YES	YES		YES	YES
Krystal 25	TYPE 1 CLASS B	TYPE 1 CLASS A	SOLVENT	25%	YES	YES		NO	YES
Krystal 30	TYPE 1 CLASS B	TYPE 1 CLASS A	SOLVENT	30%	YES	YES		NO	YES
Krystal 25 OTC	TYPE 1 CLASS B	TYPE 1 CLASS A	SOLVENT	25%	YES	YES		YES	YES
Krystal 30 OTC	TYPE 1 CLASS B	TYPE 1 CLASS A	SOLVENT	30%	YES	YES		YES	YES
Krystal 25 PCBTF	TYPE 1 CLASS B	TYPE 1 CLASS A	SOLVENT	25%	YES	YES		YES	YES
Krystal 30 PCBTF	TYPE 1 CLASS B	TYPE 1 CLASS A	SOLVENT	30%	YES	YES		YES	YES
DR Cure	TYPE 1 CLASS B		WATER	20%	YES	NO		YES	YES
Sillicure	N/A	N/A	WATER	N/A	YES	YES		YES	YES
SilaneSeal	N/A	N/A	WATER	9-11%	YES	N/A		YES	YES
SurePoxy Protective Coating WD	TYPES I & 2 CLS. A & B	TYS 1 & 2 CLASS B	WATER	30-50%	YES	NO		YES	YES
Thinfilm 420	TYPES 1/1D CLS. A & B	N/A	WATER	20%-30%	YES	NO		YES	YES
Thinfilm 422 Thinfilm 424	TYPES 1/1D CLASS A	N/A	WATER	20-35%	NO	NO		YES	YES
Thinfilm 445 Thinfilm 445FL Thinfilm 446	TYPE 2 CLASS A	N/A	WATER	20-35%	NO	NO		YES	YES
Thinfilm 450	TYPE 2 CLS. A & B	N/A	WATER	20-35%	YES	NO		YES	YES
Thinfilm 453	TYPE 2 CLS. A & B	N/A	WATER	20-35%	YES	NO		YES	YES

ASTM C 309

Type 1 – Clear
 Type 1D- Clear with Fugitive Dye
 Type 2 – White Pigmented
 Class A – Wax or resin
 Class B – Resin only

ASTM C 1315

Type I – Clear
 Type II – White Pigmented
 Class A – Non-Yellowing
 Class B – Yellows Slightly
 Class C – Severely Yellows

HARDENERS DUSTPROOFERS

	Description	Uses	Pkg/Yield
Tycron	Nonmetallic dusted-in concrete floor hardeners. Natural and colors available.	Dustproofing, wear resistant, heavy-duty application for floors. Colors for decorative or functional uses.	50# bag .6- 1 lb./ft ²
Tycron Met	Metallic dusted-in floor hardener, available in natural and colors.	Wear-resistance is increased with the use of this light-weight metallic hardener.	60 lb. bag 1-1.5 lbs./ft ²
Tycron Met 200	Heaviest duty, metallic dusted-in floor hardener, available in natural and colors.	Tremendous wear-resistance due to the heavy use of metallic aggregates.	60 lb. bag 1-1.5 lbs./ft ²
Tycron EM	Emery aggregate shake-on hardener for increased abrasion resistance. Available in natural & colors.	Ideal for use in industrial applications where increased abrasion resistance is required.	50# bag 1-1.5 lbs./ft ²
Tycron Met NR 200	Heavy duty, non-oxidizing metallic aggregate shake on hardener. Available natural and in colors.	Use in applications where increased abrasion resistance & non-rusting materials are needed	60# bag 1-1.5 lbs./ft ²
Diamond	Concentrated magnesium/zinc fluorosilicate solution, 2-3 coats required. Designed to dustproof existing concrete slabs. Meets:CE-204.	Hardens existing floor surfaces to give a dustproof, long wearing surface. 5 year dust-proofing guarantee available.	55 gal. drum 5 gal. pail 100-150 ft ² /gal.
SureHard	Seals, hardens and helps dustproof concrete. High solids liquid penetrates concrete and forms a gel within its pores by reacting with the free lime.	Use wherever increased abrasion resistance, a denser surface and greater chemical resistance are needed. Older dusting surfaces may be restored with SureHard.	55 gal. drum 5 gal. pail 200-500 ft ² /gal.
SureHard LS	Lithium silicate hardening & dustproofing compound. High solids liquid penetrates concrete and forms a gel within its pores by reacting with the free lime. Limited labor required for maximum effect.	Use wherever increased abrasion resistance, denser surface & greater chemical Older dusting surfaces may be restored. Ideal for polishing.	55 gal. drum 5 gal. pail
ColorCoat	Lightly pigmented high solids curing & sealing compounds. Meets: ASTM C-309, Type 1, Cls. A & B ASTM C-1315, Type 1, Class B AASHTO M-148	Recommended for curing of colored Tycron floors.	5 gal. pail 350 ft ² /gal.

COATINGS

	Description	Uses	Pkg/Yield
SurePoxy HiBild	100% solids, 2 component epoxy polyamine adduct coating for damp and dry surfaces. Solvent free. High build. Clear and pigmented. Meets: ASTM C-881, Type III Grade 2, Classes B & C	Provides tile-like coating that waterproofs and protects against corrosion and deterioration.	10 gal. unit 2 gal. unit 100-400 ft ² /gal.
K Pro CRS	Highest performance, 2 component 100% solids epoxy. Uses special high abrasion and chemical resistant hardeners. Top of the line.	Recommended for exposed concrete in factories, warehouses and other heavy duty areas. Our highest performance coating.	10 gal. unit 2 gal. unit 100-400 ft ² /gal.
SurePoxy Protective Coating WD	Two-component, water-thinned, VOC compliant epoxy curing & sealing compound. ASTM: C-309, Types I & II, Cls. A & B AASHTO: M-148, Types I & II, Cls. A & B ASTM C-1315, Types I & II, Class B NCHRP Report #244, Series II & IV	Suitable for use in both interior & exterior surfaces. No removal required prior to subsequent epoxy and urethane application. Ideal for application to green concrete as a curing and sealing compound. Available in clear and concrete gray.	2 gal. unit 10 gal. unit <i>Curing:</i> 200 ft ² /gal. <i>Sealing:</i> 150-200 ft ² prime coat, 200 ft ² subsequent coats.
SureSeal	High solids rubber base coating clear and pigmented. Both acid and alkali resistant. SureSeal may be applied over acrylic curing compounds without acid etching.	Decorative, dust-proofed concrete floors. Easy maintenance. Use 2-3 coats.	Clear: 55 gal. drum 5 gal. pail <i>Pigmented:</i> 5 gal. pail 300-500 ft ² /gal.

FORM TREATMENTS

	Description	Uses	Pkg/Yield
SureForm 20	Original physical form release agent. Provides release by physically preventing bond and reacting with the alkali. Non-hazardous, non-toxic and meets all EPA & OTC regulations. Meets: CE-204, Sect. 7.10 CE-1401.01, Sect. 17.14	Recommended for pre-cast and pre-stressed plants. Non-staining formulation with a very low evaporation rate.	275 gal. tote 55 gal. drum 5 gal. pail 1000-1500 ft ² /gal.
FormKote OTC	VOC compliant chemical release agent that meets all aspects of the Ozone Transport Commission standards. Meets: CE-204	Provides an economical release every time. Ideal for jobsite usage where ozone transportation standards must be met.	275 gal. tote 55 gal. drum 5 gal. pail 700-2000 ft ² /gal.
FormKote Concentrate	VOC compliant chemical release concentrate. Mix with diesel fuel 10:1 for final product.	Economical release agent recommended for general construction.	55 gal. drum 5 gal. pail
FormKote Emulsion	Emulsified chemical release agent that meets all requirements by the EPA & OTC for VOC content regulations. Material changes from white when wet to clear when dry to aid in application.	Water based release agent designed to be used in areas where the environment is at risk. As well as to meet EPA specifications in general construction.	55 gal. drum 5 gal. pail 600-1500 ft ² /gal.
KleenLease 28	Original, chemically active & "drying type" form release agent. Meets all EPA standards for VOC. Meets: CE 204	Provides a "dry" form surface to avoid coating cables & for additional safety above ground. Recommended for pre-cast/prestressed concrete where ozone transportation standards must be met.	275 gal. tote 55 gal. drum 5 gal. pail 900-3000 ft ² /gal.

MISCELLANEOUS

	Description	Uses	Pkg/Yield
Expose	Surface retarder for horizontal concrete surfaces.	Inexpensively expose aggregates on freshly poured flatwork without "hot-spots".	55 gal. drum 5 gal. pail
VaporAid	Monomolecular polymer film that serves as an evaporation retardant and finishing aid for high quality concrete flatwork. Concentrated formula that may be diluted 9:1 with water.	It forms a thin continuous film which retards rapid water evaporation from the surface during windy, hot days.	5 gal. pail 200-400 ft ² /gal. after dilution
Excell	Accelerating admixture for concrete and mortar. Strongest acting.	Use in mortar or concrete to speed the set. Reduces water requirements.	55 gal. drum 5 gal. pail 4/1 gal./case
Excell NC 80	Non-chloride, accelerating, water reducing admixture that will not freeze unless exposed to temps. under 10°. Meets: ASTM C-494. C-270	For use in mortar in cold weather conditions. Can be safely used in all plain concrete block, mortar, pipe and other precast and post-tensioned concrete.	55 gal. drum 5 gal. pails 4/1 gal. cans
SureSlip	A natural graphite based lubricant for allowing dowel bars to slide in concrete pavements and allow for expansion and contraction.	Provides much greater lubricity when compared to greases and oils. Meets all PA DOT specifications.	5 gal. pail
K Pro CD	100% organic and biodegradable degreaser. VOC compliant formulation in a concentrated solution that may be diluted up to 10 :1 with potable water.	Pure citric degreaser for removing deposits of grease oil, and other contaminants from concrete surfaces. Ideal for use with Thinfilm 422 or 445.	55 gal. drum 5 gal. pail 4/1 gal./case
EasiKleen EM	High strength blend of solvents and special emulsifiers designed to help remove hydrocarbon resin based curing compounds including Thinfilm 420, 450, 448, & DR Cure.	Flammable compound for removing hydrocarbon resin based curing compounds	55 gal. drum 5 gal. pail 100-200 ² ft/unit
Pneumatic/ Manual Dual Cartridge Guns	Special guns designed to dispense cartridge units of epoxies of either 1:1 or 2:1 mix ratios.	Use for vertical application of epoxy gels, low, or regular viscosity epoxy repair products.	1 gun per case

CHEMICAL RESISTANCE GUIDE

Reagent	K Pro CRS	SurePoxy Protective Coating WD	SurePoxy HM, LM, VLM, HiBild	Patchwell Series	SureSeal, Krystal Series
Acid					
Acetic Acid 10%	R	NR	NR	NR	R
Citric Acid 10%	R	NR*	R	R	NR
Glycolic Acid 20%	R	NR	NR	NR	NR
Hydrochloric Acid 10%	R	NR*	NR*	NR*	NR
Lactic Acid 10%	R	NR*	NR	NR	NR*
Nitric Acid 5%	R	NR*	NR*	NR*	NR
Sulfuric Acid 10%	R	NR	NR	NR	NR
Phosphoric Acid 85%	NR*	NR	NR	NR	NR
Alkali					
Bleach	R	NR	NR	NR	NR
Chlorides, Deicing Salts	R	R	R	R	R
Rock Salt	R	R	R	R	R
Sodium Hydroxide 15%	R	R	R	R	R
Sulfates	R	R	R	R	R
Solvent					
Benzene	R	NR	NR	NR	NR
Ethyl Alcohol	NR	R	NR	NR	NR
Ethylene Glycol	NR	NR*	R	NR	NR
Isopropyl Alcohol	NR	R	NR	NR	NR
MEK	NR	NR*	NR	NR	NR
Methylene Chloride	NR	NR	NR	NR	NR
Methanol	NR	R	NR	NR	NR
Toluene	R	NR	NR	NR	NR
Trichlorethylene	R	NR	NR	NR	NR
Xylene	R	NR*	NR*	NR	NR
Miscellaneous					
Aluminum Sulphate	R	R	R	R	R
Anti-Freeze	R	R	R	R	NR
Brake Fluid	NR	NR	NR	NR	NR
Chlorine	R	R	R	R	R
Diesel Fuel	R	R	NR	NR	NR
Formic Acid 10%	R	NR	NR	NR	NR
Gasoline	R	NR*	NR	NR	NR
Glycerin	R	R	R	R	R
Hydraulic Fluid	R	NR*	R	R	R
Jet Fuel	R	NR	NR	NR	NR
Motor Oil	R	R	R	R	R
Perchloroethylene	R	NR	NR	NR	NR
Skydrol	R	R	NR	R	NR
Sugar	R	R	R	R	R
Urine	R	R	R	R	R
Water	R	R	R	R	R

This is intended as a general guide based on continuous immersion of specimens at 75° F for 28 days. Resistance to intermittent exposure or occasional spillage is less severe and tests should be run to determine if performance is satisfactory.

R - Recommended
NR - Not Recommended.
NR* - Recommended for intermittent spillage only

ESTIMATING DATA - COATINGS MORTARS GROUTS

CHART A

COVERAGE PER GAL. (100% Solids)		
Thickness		Square feet /Gal.
Mils	Inches	
1		1600
2		800
3		535
4		400
5		320
6		267
8		200
10		160
16		100
32	1/32	50
64	1/16	25.7
125	1/8	12.8
187	3/16	8.6
250	1/4	6.4
375	3/8	4.3
500	1/2	3.2
	1	1.6
	2	.8
	3	.53
	4	.40
	5	.32
	6	.265

CHART B

EPOXY MORTAR YIELD PER GAL. OF EPOXY BINDER		
Gals. Epoxy Builder	Gals. Aggregate	Gals. Mortar
1	1	1.6
1	2	2.2
1	3	2.8
1	4	3.4
1	5	4.0
1	6	4.6
1	7	5.3

Above based on 100% solids. If less than 100%, divide above by sq. ft./gal. by NVM decimal. (Example: 50% solids, divided by .50)

DIRECTIONS FOR ESTIMATING

1. Use Chart A and divide sq. ft. of area to be covered by sq. ft./gal., opposite the thickness desired. The answer is the total number of gallons required for 100% solids coating **without** aggregate. If an aggregate filled mortar is desired, continue:
2. Divide gallons from above answer by gal. mortar (opposite desired binder: aggregate ratio in Chart B): Answer is gallons of epoxy **binder** needed.
3. Difference between 1 and 2 is gallons of aggregate needed.
4. Multiply #3 by 13 to convert gallons of aggregate to pounds.

Notes

Convert ft.³ into in.³ by multiplying by 1,728
 Convert yd.³ into in.³ by multiplying by 46,656
 Convert in. ³ into gallons by dividing in.³ by 231

ESTIMATING DATA - ANCHORING/UNIT CONVERSION CHARTS

Hole Diameter Inches	MATERIAL REQUIREMENTS FOR BOLT GROUTING Volume of Grout Per Lineal Foot of Hole in in ³							
	Bolt Inches, Diameter							
	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2
1/2	1.8							
3/4	4.7	2.9						
1	8.8	7.1	4.1					
1 1/2	20.6	18.8	15.9	11.8				
2	37.1	35.3	32.4	28.3	22.4	16.5		
2 1/2	58.3	56.5	53.6	49.5	43.6	37.7	29.5	21.2
3	84.2	82.5	79.5	75.4	69.5	63.6	55.4	47.1

RE BAR	APPROXIMATE DIAMETER, INCHES
4	1/2
6	3/4
8	1
10	1 1/4
12	1 1/2
14	1 3/4

To calculate the total material requirement

1. Measure the hole depth in inches.
2. Count the number of bolts to be grouted.
3. Read the quantity from the chart based on hole diameter and bolt diameter.
4. Calculate the volume of grout needed.

$$\text{Volume (in ft.}^3\text{)} = \frac{\text{(Number of Holes)} \times \text{(Depth)} \times \text{(Chart Value)}}{20,736}$$

$$\text{Volume} = \frac{(25) \times (118) \times (47.1)}{20,736} = 1.02 \text{ ft.}^3 \text{ (add 10\% to 20\% for waste)}$$

Unit Conversion Charts

Linear

	Inch	Mil	Cm	Mm	Micron
Inch	1	1,000	2.54	25.4	25,400
Mil	.001	1	.00254	.0254	25.4
Cm	.3937	393.7	1	10	10,000
Mm	.03937	39.37	.10	1	1,000
Micron	.00003937	.03937		.001	1

Area

	In ²	Ft ²	Yd ²	M ²
In ²	1	.006944	.007716	.0006452
Ft ²	144	1	.1111	.0929
Yd ²	1296	9	1	.8361
M ²	1550	10.7638	1.196	1

Volume

	US Gal.	Imp. Gal.	Liter	In ³	Ft ³
US Gal.	1	.8327	3.785	231	.1337
Imp. Gal.	1.201	1	4.546	277.4	.1606
Liter	.2642	.22	1	61	.0353
In ³	.00433	.00361	.0164	1	.00058
Ft ³	7.481	6.229	28.316	1,728	1

Temperature

$$^{\circ}\text{C} = \frac{^{\circ}\text{F} - 32}{1.8}$$

$$^{\circ}\text{F} = ^{\circ}\text{C} \times 1.8 + 32$$

K A U F M A N

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Note

This booklet is not intended to describe all hazards, limitations, warnings, precautions, etc., pertaining to each product herein. For complete product information refer to the product literature.

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