

Global Market Analysis and Technical Procurement Report: Bisphenol A Epoxy Resin Systems, Curing Agents, and Industrial Flooring Formulations (2024–2026)

Executive Market Intelligence and Pricing Dynamics

The global landscape for Bisphenol A (BPA) epoxy resin and its associated curing agents is currently undergoing a period of significant structural bifurcation. For industrial procurement officers, formulation chemists, and large-scale flooring contractors, the market presents two distinct realities: a commoditized, highly volatile international spot market dominated by Asian production, and a value-added, service-intensive domestic market in North America. Understanding the interplay between these two spheres—and the technical specifications that bridge them—is essential for optimizing procurement strategies for 55-gallon drum quantities.

As of the 2024–2026 trading period, the price of bulk epoxy resin is heavily influenced by upstream feedstock variances, specifically in the propylene and benzene value chains. The "spot price" for standard liquid epoxy resin (Diglycidyl Ether of Bisphenol A, or DGEBA) in the direct-import market has seen lows ranging from **\$1.60 to \$2.60 per kilogram**¹, heavily dependent on volume and origin. However, this raw commodity price stands in stark contrast to the "contractor-ready" bulk pricing seen in the domestic US market, where formulated 165-gallon kits (comprising two drums of resin and one drum of hardener) trade between **\$12,900 and \$13,900**.³ This equates to a price band of approximately **\$78 to \$84 per gallon** for formulated material, representing a significant premium over the raw chemical cost. This premium reflects the value of formulation science—rheology modification, air release optimization, and stoichiometric balancing—as well as domestic warehousing, technical support, and the mitigation of supply chain risks such as crystallization.

The market is further segmented by the technical requirements of end-use applications. While standard BPA resins constitute the bulk of the market volume, specialized sectors require Novolac resins for extreme chemical resistance or Polyaspartic topcoats for UV stability and rapid return-to-service. The pricing differentials for these advanced chemistries are substantial, with Polyaspartic resins commanding prices of **\$55 to \$150 per gallon**⁴, and Novolac systems reaching **\$4.67 per square foot** in material costs alone.⁶ Consequently, the total cost of ownership for an industrial flooring system is not merely a function of the resin's

price per drum, but a complex equation involving coverage rates, labor efficiency, and long-term durability profiles.

Table 1: Comparative Price Structures for Bulk Resin Systems (2024–2026)

Material Category	Unit of Measure	Import Commodity Price (FOB China)	Domestic Wholesale Price (USA Distributor)	Contractor / Retail Price
Standard BPA Epoxy Resin	55-Gallon Drum	\$1.60 – \$2.60 / kg ¹	\$2,000 – \$3,500 / drum	\$50 – \$80 / gal ²
Epoxy Novolac Resin	55-Gallon Drum	\$2.20 – \$2.80 / kg ⁷	\$3,500 – \$5,000 / drum	\$90 – \$150 / gal ⁸
Cycloaliphatic Hardener	55-Gallon Drum	\$3.29 – \$5.99 / kg ⁹	\$2,500 – \$4,000 / drum	\$60 – \$100 / gal ¹⁰
Polyaspartic Resin	50-Gallon Drum	N/A (Specialty)	\$45 – \$70 / gal	\$100 – \$150 / gal ⁵
Urethane Cement Kit	Unit (Part A/B/C)	N/A	\$90 – \$110 / kit	\$126 – \$129 / kit ¹¹
Benzyl Alcohol (Diluent)	55-Gallon Drum	Highly Competitive	\$800 – \$1,200 / drum	\$40 – \$60 / gal ¹²

This report dissects these pricing structures through the lens of chemical engineering and application logistics, providing a comprehensive guide to the bulk procurement of resinous flooring materials.

1. Feedstock Economics and Resin Synthesis

To comprehend the volatility and pricing structure of the 55-gallon drum market, one must first analyze the molecular origins of the product. The epoxy resin supply chain is fundamentally a petrochemical derivative, and its pricing is inextricably linked to the global

energy markets, albeit with a latency period driven by processing and inventory cycles.

1.1 The Synthesis of Diglycidyl Ether of Bisphenol A (DGEBA)

The vast majority of commercial epoxy resins are synthesized through the reaction of **Bisphenol A (BPA)** and **Epichlorohydrin (ECH)**. This reaction, typically catalyzed by sodium hydroxide (NaOH) in a dehydrohalogenation process, yields DGEBA and sodium chloride (salt) as a byproduct. The ratio of Epichlorohydrin to Bisphenol A dictates the molecular weight and physical state of the resulting resin.

In the context of bulk flooring resins—often referred to by the legacy trade name "828" (originally Shell Epon 828, now Olin or Hexion)—manufacturers target a low molecular weight oligomer. The chemical goal is to achieve an "n" value (repeating unit) of approximately 0.1 to 0.2. This results in a liquid resin with an **Epoxide Equivalent Weight (EEW)** typically between 182 and 192 grams per equivalent.¹³ The viscosity of this unmodified resin at 25°C is substantial, ranging from 11,000 to 15,000 centipoise (mPa-s).¹³ This high viscosity is a critical factor in downstream economics, as it necessitates the use of diluents (either reactive or non-reactive) to make the material workable for flooring contractors, thereby influencing the final cost per gallon.

1.2 Feedstock Value Chains and Cost Drivers

The price of a drum of BPA epoxy is determined by the distinct supply/demand curves of its two parent chemicals.

Bisphenol A (BPA): BPA is synthesized from the condensation of acetone and phenol. Both of these precursors are downstream derivatives of the benzene and propylene value chains.

- **Benzene Dynamics:** As a primary aromatic hydrocarbon derived from crude oil reforming or steam cracking, benzene prices are highly correlated with Brent Crude oil futures. A spike in oil prices typically reflects in the phenol market within 30 to 60 days, subsequently pushing up BPA contract prices.
- **Propylene Dynamics:** Propylene is a co-product of ethylene production. Disruptions in cracker operations or shifts in demand for polypropylene plastics can create volatility in the acetone market, indirectly affecting BPA costs.

Epichlorohydrin (ECH): The market for ECH has undergone a radical transformation in the last decade, particularly in Asia. Historically, ECH was produced from propylene via allyl chloride. However, the rise of the biodiesel industry has created a glut of crude glycerin as a byproduct.

- **Glycerin-to-ECH (GTE):** Many Chinese resin manufacturers utilize the GTE process, which converts renewable glycerin into ECH. This decouples a portion of the epoxy supply chain from oil prices and ties it instead to the agricultural commodities market (soybean oil, palm oil) and biofuel mandates. This structural difference in feedstock often

allows Asian producers to offer DGEBA resins at lower price points—**\$1.60 to \$2.60 per kg**¹—compared to Western producers reliant on propylene-based routes.

1.3 Global Supply Chain Logistics and Risks

While the price arbitrage between Asian import drums and domestic supply is attractive, it carries significant technical and logistical risks that procurement managers must quantify.

Crystallization: Unmodified DGEBA resin is a supercooled liquid that is thermodynamically unstable at room temperature; it has a natural tendency to revert to a crystalline solid. This phase change is accelerated by temperature fluctuations and the presence of seed crystals.

- **The Winter Transit Risk:** Drums shipped in unheated ISO containers during Northern Hemisphere winters frequently arrive in a semi-solid, crystallized state.¹³ While this is reversible by heating the drums to 50–60°C for extended periods, many contractors lack the industrial ovens or drum heaters required to do this safely and uniformly. The cost of "melting" crystallized resin—energy, labor, and delay—can rapidly erode the savings from direct importation.
- **Domestic Distributor Value:** Domestic distributors absorb this risk. They import in bulk ISO tanks, maintain the resin at appropriate temperatures, filter it, and repackage it into drums. The premium paid for domestic drums—often **\$2,000 to \$3,500 per drum**—is effectively an insurance premium against receiving unusable, crystallized material.

2. Curing Agent Chemistries and Stoichiometry

The "Part A" resin is chemically inert until paired with a "Part B" curing agent. In the bulk market, curing agents are not generic; they are highly specialized amine chemistries that define the application characteristics and performance envelope of the flooring system. The cost of the hardener is often the single largest variable in the total system cost.

2.1 The Amine Hierarchy

The market offers a spectrum of amine hardeners, ranging from basic commodities to engineered molecules.

2.1.1 Aliphatic Amines

- **Chemistry:** Straight-chain amines such as Diethylenetriamine (DETA) or Triethylenetetramine (TETA).
- **Performance:** These are the most reactive and typically the least expensive curing agents. However, they suffer from poor surface aesthetics, being prone to "amine blush"—a reaction with atmospheric carbon dioxide and moisture that creates a greasy, waxy film on the surface. They also yellow rapidly upon UV exposure.
- **Market Position:** Due to these defects, unmodified aliphatic amines are rarely used in

top-tier flooring systems. They find use in low-cost primers or as intermediates for more complex hardeners.

2.1.2 Cycloaliphatic Amines

- **Chemistry:** These hardeners incorporate a ring structure (e.g., Isophorone Diamine or IPDA derivatives). The ring provides steric hindrance, which significantly improves resistance to UV yellowing and reduces the tendency to blush.
- **Market Dominance:** Cycloaliphatic amines are the industry standard for high-performance epoxy flooring, particularly for topcoats and decorative basecoats.
- **Ancamine 1618:** This specific trade name (and its generic analogues) appears frequently in industry specifications.⁹ It acts as a benchmark for the category: a modified cycloaliphatic amine that offers a balance of cure speed, color stability, and viscosity.
- **Pricing:** Wholesale import prices for Ancamine 1618 analogues range from **\$3.29 to \$5.99 per kg.**⁹ In the domestic market, a 55-gallon drum of premium cycloaliphatic hardener can cost between **\$2,500 and \$4,000**, reflecting its status as a critical performance component.

2.1.3 Phenalkamines

- **Origin:** Derived from Cashew Nut Shell Liquid (CNSL), a renewable bio-resource.
- **Performance Niche:** Phenalkamines are unique in their ability to cure at low temperatures (down to 0°C) and in the presence of moisture. They are often used in "surface tolerant" primers for green concrete or cold-storage environments.
- **Cost:** While historically cheaper, the processing required to create high-performance grades places them in a similar price bracket to cycloaliphatics.

2.2 Stoichiometry: The Mathematics of Bulk Formulation

One of the most critical challenges in transitioning from pre-packaged kits to bulk drums is the requirement for precise stoichiometric calculations. Pre-packaged kits are formulated to mix at convenient whole-number ratios (e.g., 2:1 or 4:1 by volume). Bulk drums, however, are sold by weight, and the chemistry must be balanced by the user or the toll blender.

The fundamental equation governing epoxy formulation is the calculation of **Parts per Hundred Resin (PHR)**:

$$\text{PHR} = \frac{\text{AHEW} \times 100}{\text{EEW}}$$

Where:

- **AHEW (Amine Hydrogen Equivalent Weight):** The weight of the hardener containing one equivalent of active hydrogen.
- **EEW (Epoxide Equivalent Weight):** The weight of the resin containing one equivalent of

epoxide group (typically ~190 for standard BPA resin).

Implications for Procurement:

If a contractor purchases a drum of Resin (EEW 190) and a drum of a specific Cycloaliphatic Hardener (AHEW 103):

$$\text{PHR} = \frac{103 \times 100}{190} \approx 54.2$$

This dictates that for every 100 lbs of resin, 54.2 lbs of hardener are required.

- **Volume vs. Weight:** Since the specific gravity of resin (~1.16) differs from that of the hardener (~0.98), a weight ratio of 100:54.2 does *not* equal a volume ratio of 2:1. Procurement must ensure that the volumes purchased align with the consumption rates dictated by the stoichiometry. Buying equal numbers of drums will inevitably result in a surplus of one component.
- **Inventory Management:** The standard "165-Gallon Kit" ³ consisting of two drums of Part A and one drum of Part B implies a formulation that has been specifically engineered (likely with diluents in the Part A side) to force the stoichiometry to a user-friendly 2:1 volume mix. Buying raw commodity drums denies the user this convenience.

3. Formulation Science: Diluents and Additives

Raw DGEBA resin and pure amine hardeners are rarely used in isolation. To create a viable flooring system, they must be modified with diluents to reduce viscosity and additives to enhance performance. These modifiers are hidden cost drivers in the bulk drum price.

3.1 Diluents: Controlling Viscosity

With raw resin viscosity exceeding 11,000 cP, diluents are necessary to achieve the flow and leveling required for flooring applications (typically 500–1,500 cP).

3.1.1 Reactive Diluents

These are low-viscosity organic compounds that contain epoxy groups (mono- or di-functional). Because they contain epoxides, they react with the hardener and become chemically bound into the polymer matrix.

- **Common Types:** C12-C14 Aliphatic Glycidyl Ethers, Cresyl Glycidyl Ether.
- **Pros:** They maintain the structural integrity of the cross-linked network better than solvents.
- **Cons:** High quality reactive diluents are expensive, often costing more per pound than the base resin. They can also reduce the chemical resistance of the final floor if used in excess.

3.1.2 Non-Reactive Diluents (Plasticizers)

These reduce viscosity but do not react chemically with the hardener. They remain trapped in the polymer matrix like water in a sponge.

- **Benzyl Alcohol:** This is the most ubiquitous modifier in the epoxy flooring industry. It acts as a solvent to cut viscosity and as an accelerator to speed up the cure reaction.
- **Pricing:** Benzyl alcohol is a commodity chemical. Bulk 55-gallon drums are readily available.¹² Importing technical grade benzyl alcohol is a common strategy for formulators to lower the overall cost of their system.¹⁴
- **The "Zero VOC" Loophole:** Benzyl alcohol is technically a volatile organic compound, but due to its high boiling point and slow evaporation rate, many regulations (and marketers) treat it leniently. However, excessive use (>10-15%) can lead to shrinkage over time as the alcohol eventually migrates out, and it can soften the floor.

3.2 Performance Additives

High-performance "Private Label" drums distinguish themselves from generic commodity drums through the inclusion of sophisticated additives.

3.2.1 Defoamers and Air Release Agents

High-speed mixing introduces air into the resin. Without a defoamer, the cured floor will be marred by pinholes and bubbles.

- **BYK-A 530:** A silicone-based polymeric defoamer frequently cited in high-end formulations.¹⁵ It works by destabilizing the foam lamellas, allowing bubbles to burst.
- **Cost Density:** These additives are expensive—often **\$7.00 to \$10.00 per kg** in bulk¹⁵—but are used in minute quantities (0.2% - 0.5% by weight). Their presence is a key differentiator between a "premium" drum and a "raw" drum.

3.2.2 UV Stabilizers (HALS)

To combat the natural tendency of BPA epoxy to yellow under UV light, formulators add Hindered Amine Light Stabilizers (HALS).

- **Tinuvin 292:** A liquid HALS widely used in coatings.¹⁶ It functions by scavenging the free radicals produced by photo-oxidation.
- **Pricing:** This is a high-cost ingredient, trading between **\$40 and \$70 per kg**.¹⁶ Adding 1-2% HALS to a drum significantly increases the raw material cost but allows the product to be marketed as "UV Resistant" (though not UV stable like Polyaspartic).

3.2.3 Rheology Modifiers (Thickeners)

For vertical applications (cove bases) or crack fillers, the resin must resist sagging.

- **Fumed Silica:** Products like Cab-O-Sil or Aerosil are used. These are extremely

low-density, high-surface-area powders.

- **Pricing:** Sold by volume/bag size rather than pure weight due to lightness. A 10kg (22 lb) bag can cost **\$475 - \$575**.¹⁹
- **Mechanism:** They create a thixotropic network—the fluid flows under the shear stress of a trowel but builds viscosity rapidly when at rest to prevent sagging.

4. Industrial Flooring System Architectures and Cost Analysis

The cost of a bulk drum is only one variable in the project equation. The true economic metric is the **Cost Per Square Foot** of the installed system. This section analyzes the material requirements and cost structures for the primary industrial flooring systems.

4.1 Solid Color High-Build Epoxy System

This is the standard "warehouse" floor: a primer followed by a high-build body coat.

- **Architecture:**
 1. **Primer:** 5-8 mils (200-320 sq ft/gal). Often a water-based or solvent-thinned epoxy to penetrate concrete.
 2. **Body Coat:** 15-20 mils (80-100 sq ft/gal). 100% Solids pigmented epoxy.
- **Bulk Cost Analysis:**
 - **Resin Cost:** At \$0.25/oz (approx \$32/gal bulk blended cost), the resin component for the body coat (80 sq ft/gal) is roughly **\$0.40 per sq ft**.
 - **Total System Cost:** Including primer, the material cost ranges from **\$0.50 to \$0.80 per sq ft**.
 - **Economy Mode:** Contractors often reduce costs further by adding silica flour (200 mesh) to the body coat, extending the expensive resin with cheap filler.

4.2 Vinyl Flake (Chip) Broadcast System

The dominant system for residential garages and light commercial spaces.

- **Architecture:**
 1. **Base Coat:** Pigmented epoxy (receiver coat).
 2. **Broadcast Media:** Vinyl flakes broadcast to refusal.
 3. **Top Coat:** Polyaspartic or Urethane.
- **Aggregate Economics (Torginol Flakes):**
 - **Brand Dominance:** Torginol is the ubiquitous supplier.²⁰ Most "private label" flakes are re-boxed Torginol product.
 - **Pricing:** 40 lb boxes trade wholesale for **\$92 to \$168**.²⁰ This equates to **\$2.30 - \$4.20 per pound**.
 - **Coverage:** A "full broadcast" requires approx. 0.15 lbs per sq ft (minimum) to 0.20

lbs per sq ft (for total rejection).

- **Aggregate Cost:** At 0.15 lbs/sq ft, the flake cost is **\$0.35 - \$0.60 per sq ft**.
- **System Total:** Adding the base coat (\$0.25) and a premium Polyaspartic topcoat (\$0.50 - \$0.75), the total material cost ranges from **\$1.10 to \$1.60 per sq ft**.

4.3 Colored Quartz System

A robust, industrial-grade system for commercial kitchens, locker rooms, and wet environments.

- **Architecture:**
 - Often a "Double Broadcast" to ensure uniform color and texture.
 - Layers: Base Coat -> Quartz -> Body Coat -> Quartz -> Grout Coat -> Top Coat.
- **Aggregate Economics:**
 - **Material:** Ceramically coated silica sand. Brands include Estes and Torginol.
 - **Pricing:** 50 lb bags trade for **\$28 to \$48**.²³ Per pound, this is cheaper than flake (**\$0.56 - \$0.96/lb**).
 - **Usage Rate:** This is the cost driver. Quartz is heavy and spherical. A double broadcast system consumes **1.5 to 2.0 lbs per sq ft**.²⁵
 - **Aggregate Cost:** Despite the low price per pound, the high usage rate drives the aggregate cost to **\$1.00 - \$1.80 per sq ft**.
- **System Total:** With multiple layers of resin required to lock in the heavy aggregate, material costs for quartz floors are significantly higher, often **\$2.40 to \$3.50 per sq ft**.

4.4 Urethane Cement (Polymer Concrete)

Designed for extreme thermal shock (steam cleaning) and moisture tolerance.

- **Chemistry:** A three-component hybrid system:
 - **Part A:** Water-based Polyol emulsion.
 - **Part B:** MDI Isocyanate (Polymeric Diphenylmethane Diisocyanate).
 - **Part C:** Portland cement and aggregate blend.
- **Pricing:** Sold in pre-measured kits (e.g., small buckets + bag of aggregate). A typical kit costs **\$126 - \$129**.¹¹
- **Coverage:** Coverage is low due to the thickness required (typically 1/4 inch or 3/16 inch). A kit might cover only **35 to 50 sq ft**.²⁸
- **Cost Density:** This yields a material cost of **\$3.50 to \$5.00 per sq ft**, making it the most expensive commodity system by area, justified only by its extreme performance envelope.

5. Polyaspartic and Polyurea: The High-Speed Alternatives

While BPA epoxy is the "muscle" of the industry, Polyaspartic technology is increasingly becoming the "shield."

5.1 Chemistry and Advantages

Polyaspartic resins are reaction products of an aliphatic polyisocyanate and a polyaspartic ester (a type of hindered amine).

- **Speed:** Cure times are measured in minutes, not hours. A floor can be returned to service in 4-6 hours.³⁰
- **UV Stability:** Unlike BPA epoxy, the aliphatic backbone does not absorb UV radiation, making it inherently non-yellowing.
- **Durability:** Testing indicates abrasion resistance 3-4 times higher than standard epoxy.

5.2 The Price Premium

- **Bulk Cost:** Polyaspartic resins are significantly more expensive to manufacture. Bulk pricing generally falls between **\$55 and \$90 per gallon** for contractor grades, with retail kits reaching **\$150/gallon**.⁵
- **Coverage Compensation:** Formulators and contractors offset the high cost per gallon by applying the material in thinner films (8-12 mils) compared to epoxy (15-20 mils). A gallon of Polyaspartic often covers 130-200 sq ft ⁴, compared to 80-100 sq ft for high-build epoxy.
- **Bulk Availability:** Due to high moisture sensitivity (short shelf life once opened), Polyaspartic is less commonly sold in 55-gallon drums for the average contractor. It is typically packaged in 5-gallon pails or 10-gallon kits to minimize waste.

6. Procurement Strategy: Private Label vs. Commodity Import

For the business utilizing 55-gallon drums, the choice of supplier model determines both margin and risk.

6.1 The Commodity Import Model

- **Mechanism:** Importing FCL (Full Container Loads) or ISO tanks directly from Chinese manufacturers (e.g., sources on Alibaba/Made-in-China).
- **Price: \$1.60 - \$2.60 / kg** (\$600 - \$900 per drum).
- **Hidden Costs:**
 - **Tariffs & Duties:** Dependent on trade relations (Section 301 tariffs in the US can add 25%).
 - **Logistics:** Inland freight, drayage, and warehousing.
 - **Heating:** Infrastructure required to decrystallize drums.

- **QC:** In-house lab required to verify EEW and viscosity batch-to-batch.
- **Target Profile:** Large-scale chemical distributors or massive flooring franchises (1M+ sq ft/year) with internal formulation facilities.

6.2 The Domestic Private Label Model

- **Mechanism:** Purchasing from domestic manufacturers (e.g., National Polymers, ASTC, ArmorPoxy) who white-label their formulations.
- **Price:** \$2,000 - \$4,000 per drum.
- **Value Add:**
 - **Ready-to-Use:** Resin is pre-blended with defoamers, diluents, and HALS.
 - **Consistency:** Guaranteed specs and color matching.
 - **Support:** Technical guidance on installation issues.
 - **Packaging:** Available in convenient "Job on a Pallet" kits ³² that match A and B component volumes to specific project sizes, eliminating waste.
- **Target Profile:** Mid-sized contractors and regional flooring companies who need reliability and cannot afford batch failures.

6.3 Future Market Outlook (2025–2026)

- **Sustainability Pressures:** The market is seeing early shifts toward "Bio-Epichlorohydrin" resins. While currently a small niche, regulatory pressures in the EU and North America may decouple "Green Epoxy" pricing from standard BPA pricing, creating a premium tier.
- **Labor vs. Material:** As labor costs rise, the industry is favoring faster-curing systems (Polyaspartics). The higher material cost is justified by the reduction in "trip charges" (labor travel time), allowing 2-day installs to become 1-day installs.
- **Supply Chain Localization:** Following the disruptions of the early 2020s, there is a trend toward "near-shoring" chemical supplies. This may stabilize domestic drum pricing but keep it permanently higher than the Asian spot market.

Conclusion

The market for bulk Bisphenol A epoxy resin is defined by a steep value curve. At the base, raw DGEBA resin is a globally traded petrochemical commodity priced under \$15 per gallon. At the peak, formulated, UV-stable, contractor-ready systems trade for over \$80 per gallon. The delta between these prices is not merely profit; it represents the critical engineering of stoichiometry, rheology, and logistics. For the bulk buyer, the optimal strategy depends on their internal capability to bridge this gap: specifically, their ability to handle crystallization, manage precise weight-based mixing ratios, and blend performance additives in-house. Without these capabilities, the "expensive" domestic drum often yields the lower total installed cost by preventing catastrophic floor failures.

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