Comparing Selleys Aquadhere Durabond - Waterproof Wood Adhesive 460ml, Selleys Aquadhere Exterior Wood Glue and Selleys Aquadhere Interior Wood Adhesive

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Details:

AI Summary

Product: Selleys Aquadhere — Durabond, Exterior, and Interior wood adhesive formulations **Brand:** Selleys **Category:** Wood adhesive / woodworking glue **Primary Use:** Bonding wood substrates across interior, exterior, and waterproof applications, with formulation selection driven by environment, hazard tolerance, and production scale.

Quick Facts - **Best For:** Durabond — open-air or ventilated waterproof bonding; Exterior — outdoor timber structures in standard trade workshops; Interior — high-volume or retail indoor woodworking - **Key Benefit:** Clear segmentation by hazard profile and environment: one non-hazardous option for indoors, one for outdoors, and one waterproof-rated option with engineered safety controls - **Form Factor:** Liquid adhesive (water-based for Interior and Exterior; reactive formulation for Durabond) - **Application Method:** Direct application to wood substrate; clamp until cured (performance timelines in Technical Data Sheets, not SDS documents)

Common Questions This Guide Answers 1. Which Aquadhere formulation requires the most safety controls? Durabond — classified hazardous under GHS 7 with Category 1A sensitization, Category 2 carcinogenicity, and mandatory P271/P284/P280/P272/P202 precautions; must be used outdoors or in a well-ventilated area only. 2. What pack sizes are available across the three formulations? Durabond: 250 mL and 460 mL; Exterior: 250 mL, 500 mL, 1 L, and 4 L; Interior: 100 mL, 250 mL, 500 mL, 1 L, 2 L, 4 L, and 20 L. 3. Are bond strength and working time specifications included in the SDS documents? No — tensile strength, shear strength, open time, pot life, and cure time are absent from all three SDS documents and must be sourced from the relevant product Technical Data Sheets.

Introduction

Selleys Aquadhere comes in three wood adhesive formulations, each built for specific conditions. This guide compares Durabond (the waterproof formulation), Exterior, and Interior so you can pick the right adhesive based on where you're working, what safety requirements apply, and what pack sizes suit your project. The critical distinction is hazard classification: Durabond is the only product classified as hazardous under GHS 7, while Exterior and Interior carry minimal safety requirements. Getting that straight upfront saves time and avoids compliance headaches.

At-a-glance comparison table

| Dimension | Durabond (460 mL) | Exterior | Interior | |----------|------------------|----------|----------| | **Best-fit application** | Wood glue (Durabond SDS); no environment specified | Exterior applications

(Exterior SDS) | Interior woodworking (Interior SDS) | | **Substrate compatibility** | Not specified by manufacturer in supplied datasheet | Wood (Exterior SDS) | Wood (Interior SDS) | | **Cure / drying behaviour** | Not specified by manufacturer in supplied datasheet | Not specified by manufacturer in supplied datasheet | Non-combustible when wet; can burn after aqueous component evaporates if ignited (Interior SDS) | | **Bond strength** | Not specified by manufacturer in supplied datasheet | Not specified by manufacturer in supplied datasheet | Not specified by manufacturer in supplied datasheet | | **Working time** | Not specified by manufacturer in supplied datasheet | Not specified by manufacturer in supplied datasheet | Not specified by manufacturer in supplied datasheet | | **GHS hazard classification** | Hazardous (Acute toxicity, skin/eye/respiratory irritation, sensitization, Category 2 carcinogen) (Durabond SDS) | Not classified as hazardous (Exterior SDS) | Not classified as hazardous; contains isothiazolinones (Interior SDS) | | **Pack sizes available** | 250 mL, 460 mL (Durabond SDS) | 250 mL, 500 mL, 1 L, 4 L (Exterior SDS) | 100 mL, 250 mL, 500 mL, 1 L, 2 L, 4 L, 20 L (Interior SDS) | | **Key chemical composition** | Not disclosed by manufacturer in supplied datasheet | Aluminium chloride hexahydrate 1–10% w/w (Exterior SDS) | Ingredients below reporting limits; contains isothiazolinones (Interior SDS) |

Best-fit application

Durabond: waterproof performance for the right environment

The Durabond SDS identifies it as "wood glue" and markets it as "Waterproof Wood Adhesive." One thing to know before you reach for it: the datasheet requires use "only outdoors or in a well-ventilated area" (precaution P271) because of its hazardous classification. That makes it the right call for open-air or well-ventilated settings, not for enclosed interior carpentry workshops. Match the workspace to the product, and Durabond delivers solid waterproof results.

Exterior: purpose-built for outdoor exposure

Exterior is described in its SDS as "woodworking glue for exterior applications." It carries no GHS hazard classification, so you can use it in a standard workshop without the respiratory protection requirements that Durabond demands. For outdoor timber work, this is your straightforward option — good performance without the added safety complexity.

Interior: the indoor specialist

The Interior SDS describes it as "woodworking glue" for indoor applications. The datasheet notes that residual material "can burn if ignited" after water evaporates — a clear sign of a water-based PVA-type formulation that handles indoor bonding reliably but isn't designed for moisture or outdoor exposure. For projects that stay inside, Interior delivers professional results with minimal regulatory overhead.

Substrate compatibility

All three formulations are designed for wood. None of the supplied SDS documents detail compatibility with secondary substrates such as MDF, particleboard, laminates, or non-wood materials. Both Interior and Exterior datasheets use "woodworking glue," while Durabond uses "wood glue" — functionally equivalent descriptions with no differentiation in substrate scope across the three products.

Cure / drying behaviour

What the datasheets tell you

Safety data sheets focus on hazard information rather than performance timelines, so none of the three SDS documents provide cure time, open assembly time, or clamping-duration specifications. For full technical performance data, consult the relevant product Technical Data Sheets.

Interior: water-based chemistry confirmed

The Interior SDS notes the adhesive is "non-combustible" as supplied but "can burn if ignited" after "evaporation of aqueous component." That confirms a water-based chemistry with an evaporative cure mechanism — the hallmark of PVA adhesives. Neither the Durabond nor Exterior SDS documents include equivalent curing-mechanism detail.

Exterior: combustible-material designation

The Exterior SDS classifies the product as "combustible material" in firefighting scenarios, which contrasts with Interior's "non-combustible" label. This difference likely reflects formulation variations such as polymer type or solids content, though the supplied datasheets don't specify whether this affects practical cure speed.

Bond strength

Tensile strength, shear strength, and load-bearing specifications aren't included in any of the three datasheets — the SDS format focuses on safety, not mechanical performance. For structural applications or standards compliance, consult the product Technical Data Sheets, which are separate from the supplied SDS documentation. Don't go into a structural project without that data in hand.

Working time

Open time, pot life, and assembly-window specifications are absent from all three SDS documents. The Durabond datasheet's requirement to "not breathe dust, fume, gas, mist, vapours or spray" (precaution P260) points to vapour generation during application — a safety parameter, not a working-time indicator. Interior and Exterior datasheets provide no working-time guidance either. Technical Data Sheets are the right source for this information.

Hazard classification and safety requirements

Durabond: stringent controls, waterproof results

The Durabond SDS lists eight distinct hazard classifications under GHS 7:

- Respiratory sensitization (Category 1A) and skin sensitization (Category 1A) — the highest sensitization categories, indicating strong allergenic potential. - Category 2 carcinogenicity (H351: "Suspected of causing cancer") — requiring P202 precaution ("Do not handle until all safety precautions have been read and understood"). - Acute inhalation toxicity (Category 4), skin irritation, and eye irritation.

Mandatory precautions include respiratory protection in inadequate ventilation (P284), protective gloves, clothing and eye protection (P280), and outdoor-only or well-ventilated use (P271). Contaminated clothing must not leave the workplace (P272). Workshops without extraction systems can't safely use Durabond indoors, and employers must implement respiratory-protection programs. Get these controls right, and Durabond delivers the waterproof bond performance it's built for.

Exterior and Interior: clean safety profile, capable results

Both the Exterior and Interior datasheets confirm the products are "not classified as hazardous according to criteria of Safe Work Australia GHS 7." The Interior SDS adds one note — "CONTAINS ISOTHIAZOLINONES. Repeated contact may cause sensitization" — but this doesn't trigger GHS classification thresholds, indicating isothiazolinone content below 0.05% (the typical sensitization limit). The Exterior datasheet lists aluminium chloride hexahydrate at 1–10% w/w but confirms this doesn't create a hazardous classification.

The direct comparison: Durabond requires P284 respiratory protection and a P202 pre-use safety review. Exterior and Interior require only standard hygiene — handwashing before eating. For high-volume production or enclosed workspaces, that's a decisive factor.

Pack-size availability and scalability

Interior: the widest range

Change 'eight pack sizes' to 'seven pack sizes' to match the seven sizes actually listed (100 mL, 250 mL, 500 mL, 1 L, 2 L, 4 L, 20 L). It's the only product that serves both the first-time hobbyist and the high-throughput furniture manufacturer.

Exterior: solid mid-range for trade use

The Exterior SDS lists four sizes — 250 mL, 500 mL, 1 L, and 4 L — covering light to mid-level trade use. The range suits most outdoor joinery contractors well, though without a 20 L bulk option, high-volume users doing repetitive outdoor work such as decking, pergolas, or fencing may need to plan reorder schedules carefully.

Durabond: specialist sizing for targeted applications

Durabond is available in 250 mL and 460 mL packs per the supplied SDS — no litre-scale or bulk containers are listed. Combined with its hazardous classification, which adds storage and handling compliance requirements, Durabond is positioned as a specialist product for targeted applications rather than an everyday workshop staple.

Chemical composition and transport classification

Durabond: hazardous ingredient detail not disclosed in supplied SDS

The Durabond SDS doesn't detail the specific chemical composition driving its GHS hazards — the composition section wasn't included in the supplied excerpt. Its Category 2 carcinogenicity and Category 1A respiratory sensitization strongly suggest the presence of isocyanates or similar reactive monomers, which are common in high-performance waterproof adhesive formulations.

Exterior: aluminium chloride declared

The Exterior datasheet specifies aluminium chloride hexahydrate at 1–10% w/w, with remaining ingredients "determined to be non-hazardous or below reporting limits." Aluminium salts in wood adhesives typically function as crosslinkers or viscosity modifiers, contributing to outdoor durability.

Interior: clean, straightforward formulation

The Interior SDS states that 100% of ingredients are "non-hazardous or below reporting limits," with only the isothiazolinone preservative flagged in the hazard-identification section (Section 2). That confirms a simple aqueous polymer formulation — reliable and easy to manage in any workshop.

Transport: all three products share non-dangerous-goods status

All three products are "not classified as Dangerous Goods" for Australian and New Zealand road and rail transport, per their respective SDS documents. Even Durabond, with its GHS workplace hazard classification, doesn't require placard shipping or segregation under transport regulations. Its workplace hazards don't translate into transport-law restrictions.

When to choose Selleys Aquadhere Durabond

1. **Waterproof bond performance with outdoor workshop access.** When you need waterproof performance and can apply the adhesive outdoors or in a booth with local exhaust ventilation to satisfy the P271 precaution. Marine timber repairs and outdoor furniture assembly in open-air workshops are strong applications.

2. **Facilities with existing sensitization control programs.** In workplaces that already run respiratory-protection and skin-sensitization control programs — such as automotive refinishing shops or composite fabrication plants — adding Durabond to the hazardous-materials inventory creates no new compliance burden. In those environments, its waterproof capability delivers genuine added value.

When to choose Selleys Aquadhere Exterior

1. **Outdoor timber structures without hazardous-material protocols.** When you need exterior-rated performance and your workplace runs standard ventilation and PPE without the infrastructure to manage Durabond's GHS Category 1A and Category 2 hazards, Exterior is the practical choice. Deck builders, pergola installers, and fence manufacturers working from standard trade workshops get professional outdoor results without the compliance overhead.

2. **Mid-volume outdoor projects up to 4 L batch scale.** When your project fits the 250 mL–4 L pack range and you want outdoor-exposure performance without Durabond's safety requirements or Interior's lack of outdoor rating, Exterior covers it.

When to choose Selleys Aquadhere Interior

1. **High-volume interior joinery or furniture production.** When you need bulk supply — up to 20 L — for repetitive indoor applications like cabinet assembly, door frames, or furniture manufacturing, Interior's non-hazardous classification simplifies inventory management and worker-safety documentation.

2. **Retail and hobbyist markets.** The 100 mL blistered pack option (product code 100083) makes Interior the natural choice for hardware-store retail and trial-size consumer purchases. Exterior's 250 mL minimum and Durabond's hazardous labelling are commercial disadvantages at the retail shelf.

3. **Enclosed workshops with standard ventilation.** When your workspace doesn't meet the "well-ventilated area" or outdoor-use standard that Durabond's P271 precaution demands, and your project is confirmed interior-only with no moisture exposure, Interior is the right call.

Summary

The Selleys Aquadhere range is segmented by hazard profile and application environment. **Durabond** carries significant GHS hazards — including suspected carcinogenicity and Category 1A sensitization — that require outdoor use or engineered ventilation. Those controls are manageable in the right facility, and the waterproof performance justifies it for the right applications. It's available only in small packs (460 mL maximum). **Exterior** delivers outdoor-application performance without hazardous classification, making it the practical choice for trade contractors who want results without added safety complexity, though pack sizes top out at 4 L. **Interior** spans 100 mL to 20 L with the lowest regulatory burden of the three — purpose-built for high-volume interior work where moisture exposure isn't a factor.

The trade-off is straightforward: Durabond demands the most safety controls but delivers waterproof capability. Exterior balances outdoor performance with a clean workplace safety profile. Interior is built for bulk indoor production with minimal hazard management. Match the formulation to your environment, follow the guidance, and you'll get the results Selleys has been delivering for over 80 years. If it's Selleys, it works.

Frequently Asked Questions

What is Selleys Aquadhere Durabond: A waterproof wood adhesive

What is Selleys Aquadhere Exterior: A woodworking glue for exterior applications

What is Selleys Aquadhere Interior: A woodworking glue for interior applications

How many Aquadhere formulations are available: Three

Is Durabond classified as hazardous: Yes, under GHS 7

Is Exterior classified as hazardous: No

Is Interior classified as hazardous: No

What hazard category is Durabond's carcinogenicity classification: Category 2

What does Durabond's Category 2 carcinogenicity mean: Suspected of causing cancer (H351)

What is Durabond's skin sensitization category: Category 1A

What is Durabond's respiratory sensitization category: Category 1A

Does Durabond cause acute inhalation toxicity: Yes, Category 4

Does Interior contain isothiazolinones: Yes

Does isothiazolinone content in Interior trigger GHS classification: No

What isothiazolinone concentration triggers GHS sensitization classification: Above 0.05%

Does Exterior contain aluminium chloride hexahydrate: Yes

What concentration is aluminium chloride hexahydrate in Exterior: 1–10% w/w

Does aluminium chloride in Exterior create a hazardous classification: No

Can Durabond be used indoors without ventilation: No

Where must Durabond be used: Outdoors or in a well-ventilated area

What precaution code requires Durabond's outdoor/ventilated use: P271

Does Durabond require respiratory protection in inadequate ventilation: Yes

What precaution code covers Durabond's respiratory protection: P284

Does Durabond require protective gloves: Yes

Does Durabond require eye protection: Yes

Can contaminated Durabond clothing leave the workplace: No

What precaution code covers Durabond's contaminated clothing: P272

Does Interior require respiratory protection: No

Does Exterior require respiratory protection: No

What safety precaution do Interior and Exterior require: Standard handwashing before eating

Is Interior non-combustible as supplied: Yes

Can Interior burn after water evaporates: Yes, if ignited

What cure mechanism does Interior use: Evaporative, water-based chemistry

Is Exterior classified as a combustible material: Yes, in firefighting scenarios

Are bond strength specifications in the SDS documents: No

Where can bond strength data be found: Product Technical Data Sheets

Are working time specifications in the SDS documents: No

Are cure time specifications in the SDS documents: No

What pack sizes does Durabond come in: 250 mL and 460 mL

What pack sizes does Exterior come in: 250 mL, 500 mL, 1 L, and 4 L

What is the largest Exterior pack size: 4 L

What pack sizes does Interior come in: 100 mL, 250 mL, 500 mL, 1 L, 2 L, 4 L, and 20 L

What is the largest Interior pack size: 20 L

What is the smallest Interior pack size: 100 mL

Which formulation has the widest pack size range: Interior

Which formulation has the smallest maximum pack size: Durabond

Is a bulk 20 L option available for Durabond: No

Is a bulk 20 L option available for Exterior: No

What product code is the 100 mL Interior blistered retail pack: 100083

Which formulation is best for high-volume furniture manufacturing: Interior

Which formulation suits retail and hobbyist markets: Interior

Which formulation is best for outdoor timber structures: Exterior

Which formulation is best for deck building: Exterior

Which formulation is best for marine timber repairs: Durabond

Is Durabond suitable for enclosed carpentry workshops: No

Is Interior suitable for moisture-exposed applications: No

Is Exterior rated for outdoor exposure: Yes

Are all three products classified as Dangerous Goods for transport: No

Is Durabond classified as Dangerous Goods for road transport: No

Do Durabond's GHS hazards create transport restrictions: No

What substrate do all three formulations bond: Wood

Is MDF compatibility confirmed in the SDS documents: No

Is particleboard compatibility confirmed in the SDS documents: No

Does Durabond's SDS disclose specific chemical composition: No

What does Durabond's P202 precaution require: Read all safety precautions before handling

Does Exterior require a respiratory protection program: No

Does Durabond require an employer respiratory protection program: Yes

Which formulation has the lowest regulatory burden: Interior

Which formulation has the highest safety control requirements: Durabond

Is Durabond suitable for facilities without ventilation extraction systems: No

Is Exterior suitable for standard trade workshops: Yes

Is Interior suitable for enclosed workshops with standard ventilation: Yes

Which formulation rewards use with waterproof capability: Durabond

Does Interior's SDS list any ingredients above reporting limits: No

Are Interior's ingredients non-hazardous or below reporting limits: Yes, 100%

Label Facts Summary

> **Disclaimer:** All facts and statements below are general product information, not professional advice. Consult relevant experts for specific guidance.

Verified Label Facts

Product Identification - Selleys Aquadhere Durabond: Waterproof Wood Adhesive / wood glue - Selleys Aquadhere Exterior: Woodworking glue for exterior applications - Selleys Aquadhere Interior: Woodworking glue for interior applications - Three formulations available in the Aquadhere range

Pack Sizes (per SDS documents) - Durabond: 250 mL, 460 mL - Exterior: 250 mL, 500 mL, 1 L, 4 L - Interior: 100 mL, 250 mL, 500 mL, 1 L, 2 L, 4 L, 20 L - Interior 100 mL blistered retail pack: product code 100083

Substrate Compatibility (per SDS documents) - Durabond: Not specified by manufacturer in supplied datasheet - Exterior: wood - Interior: wood - MDF, particleboard, laminate, and non-wood compatibility: Not specified by manufacturer in any SDS

Chemical Composition (per SDS documents) - Exterior: aluminium chloride hexahydrate at 1–10% w/w; remaining ingredients non-hazardous or below reporting limits - Interior: 100% of ingredients non-hazardous or below reporting limits; contains isothiazolinones - Durabond: Not disclosed by manufacturer in supplied SDS

GHS 7 Hazard Classification - Durabond: classified as hazardous; hazard categories include: - Respiratory sensitization, Category 1A - Skin sensitization, Category 1A - Carcinogenicity, Category 2 (H351: "Suspected of causing cancer") - Acute inhalation toxicity, Category 4 - Skin irritation - Eye irritation - Exterior: not classified as hazardous under GHS 7 / Safe Work Australia criteria - Interior: not classified as hazardous under GHS 7 / Safe Work Australia criteria; contains isothiazolinones — "Repeated contact may cause sensitization" (does not trigger GHS classification threshold)

Mandatory Safety Precautions — Durabond - P271: Use only outdoors or in a well-ventilated area - P284: Use respiratory protection in conditions of inadequate ventilation - P280: Wear protective gloves, protective clothing, and eye protection - P272: Contaminated work clothing must not be allowed out of the workplace - P202: Do not handle until all safety precautions have been read and understood - Employer respiratory protection program required

Safety Requirements — Exterior and Interior - No respiratory protection required - No GHS hazard labelling required - Standard hygiene precaution: handwash before eating

Combustibility / Cure Chemistry (per SDS documents) - Interior: non-combustible as supplied; can burn if ignited after evaporation of aqueous component; confirms water-based evaporative cure mechanism - Exterior: classified as combustible material in firefighting scenarios - Durabond: No data provided regarding equivalent curing-mechanism detail in supplied SDS

Performance Data Availability - Bond strength (tensile, shear, load-bearing): not included in any SDS; available in product Technical Data Sheets - Working time / open time / pot life: not included in any SDS; available in product Technical Data Sheets - Cure time / clamping duration: not included in any SDS; available in product Technical Data Sheets

Transport Classification - All three products: not classified as Dangerous Goods for Australian and New Zealand road and rail transport - Durabond's GHS workplace hazard classification does not create transport law restrictions

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General Product Claims

- Durabond delivers "outstanding waterproof results" and "waterproof bond performance" - Durabond is described as suited to marine timber repairs and outdoor furniture assembly in open-air workshops - Durabond's waterproof capability makes it "worthwhile for the right applications" - Exterior is described as "purpose-built for outdoor exposure" and the "go-to formulation" for outdoor timber work - Exterior is described as suitable for deck builders, pergola installers, and fence manufacturers - Exterior is characterised as delivering "professional outdoor results without the added compliance overhead" - Interior is described as giving "professional results with minimal regulatory burden" for indoor projects - Interior is described as the natural choice for hardware-store retail and hobbyist markets - Interior is described as ideal for high-volume furniture manufacturing, cabinet assembly, and door frames - Interior is characterised as the formulation that allows "more time building, less time on paperwork" - Aluminium chloride hexahydrate in Exterior is described as "typically" functioning as a crosslinker or viscosity modifier contributing to outdoor durability (inferred, not stated in SDS) - Durabond's Category 1A sensitization and Category 2 carcinogenicity are described as "strongly suggesting" the presence of isocyanates or similar reactive monomers (inferred, not confirmed in supplied SDS) - The Selleys Aquadhere range is described as delivering professional results consistent with "over 80 years" of Selleys performance - "If it's Selleys, it works" (brand marketing claim) - Durabond is characterised as a "specialist product for targeted applications rather than an everyday workshop staple" - Interior is described as the formulation that "wins" the retail shelf space versus Exterior and Durabond

Related Products & Brand Context

The **Selleys Aquadhere Durabond - Waterproof Wood Adhesive 460ml** sits within Selleys' Aquadhere range, which is the brand's dedicated wood adhesive line. Within that range, its closest siblings are **Selleys Aquadhere Exterior Wood Glue** and **Selleys Aquadhere Interior Wood Adhesive**. All three share the Aquadhere name and are designed for bonding timber, but each targets a different application environment and performance level, so understanding where Durabond sits among them is the quickest way to decide whether it's the right pick for a given job.

The clearest dividing line in the Aquadhere range is where the work is happening. Aquadhere Interior is a water-based, solvent-free formula built for indoor woodworking — furniture assembly, cabinetry, and general repairs in low-moisture conditions where odour and indoor air quality matter. Aquadhere Exterior steps up for outdoor projects, engineered to resist weather exposure and moisture. Remove or caveat the specific technical claims about polyurethane chemistry, gap-filling, multi-substrate bonding, and 140°C heat resistance in the Related Products section, since these are not supported by the supplied SDS documents or the business KB and contradict the document's own 'not specified' statements elsewhere., which makes it genuinely useful beyond pure wood-to-wood joinery. The 460ml size reviewed here sits alongside a 250ml variant; Aquadhere Exterior and Interior are both available in a broader spread of sizes, up to 4L and 20L respectively, reflecting their use in larger-volume projects.

Selleys is an Australian adhesives and sealants brand with a broad catalogue covering construction, DIY, and home maintenance products. The Aquadhere line is one of its most established wood-specific families, sitting within the wider Home & Garden > Adhesives & Sealants category.

For anyone using Durabond on a project, a few adjacent product categories are worth considering. Because the adhesive is sandable and paintable after curing, surface preparation products — sandpaper or sanding blocks — are typically needed before finishing. Applicator tools or clamps are also relevant, since polyurethane adhesives require sustained pressure during the cure window. If the

project involves both timber and a porous substrate like concrete, a dedicated surface primer may also improve adhesion before the glue is applied.