

Product overview

Product description

ALKA 802 is a two-component, heated-spray polyurea membrane for approved waterproofing and protective systems. It is applied by trained installers using correctly configured plural-component equipment. Grade selection, cure behaviour, substrate preparation and any exposure topcoat are confirmed before installation.

Key advantages

- Spray application provides efficient placement on suitable accessible surfaces.
- Continuous coating avoids sheet joints across the field area.
- Elastic membrane suits the movement permitted by the system design.
- Can be specified with substrate-specific primers and protective finishes.

Recommended uses

- Specialist building and industrial waterproofing.
- Prepared substrates requiring a continuous sprayed membrane.
- Approved protective membrane applications with controlled thickness.
- Repair or extension of compatible sprayed systems under an approved procedure.

Product and system selection

Use this overview with the technical data, preparation, application and limitations in the following pages. Confirm the complete build with ALKA for the actual substrate and service conditions.

Product & system selection

Two-component, heated-spray polyurea waterproofing membrane — formulation class to confirm

Rapidly applied protective waterproofing using specialist plural-component spray equipment and an approved complete system.

Where this product fits

SYSTEM POSITION — CONCEPT ONLY	SELECTION / CONTROL
Specified exposed finish / protection	UV, traffic, tiling or backfill protection as selected
Continuous waterproofing membrane	Detailed joints, penetrations, drains and terminations
Compatible primer + prepared substrate	Accepted moisture and surface condition

Specify the complete application

DECISION	SELECTION TO RECORD
Substrate	Exact substrate, condition, moisture and existing coating.
Duty	Traffic, weather, water, chemicals, temperature and cleaning as relevant.
Finish / interface	Required colour, sheen, texture and compatible adjacent layers.
Acceptance	Nominate the inspection, test method and release conditions before work.

Limits of use

Specialist spray application only after product-specific equipment settings and substrate system have been approved.

Product selection

Two-component spray membrane retained. Pure versus hybrid remains an explicit formulation choice for technical review; no arbitrary distinction between 801 and 802 is invented.

Technical data

Typical data and application conditions are listed below. Contact ALKA Technical Support for fields requiring confirmation before specification or use.

PROPERTY	VALUE / CONDITION
Chemistry	ALKA calls this polyurea; pure-polyurea versus PU/polyurea hybrid identity requires confirmation
Components / pack	Two components; 60 kg listed on web; component quantities need validation
Density	1.00–1.13 kg/L on web; component/mixed basis not defined
Reaction reference	3–5 seconds on web; define gel/tack time, not service release
Mix ratio / spray pressure	Validated equipment commissioning values required
Indicative heating	Web hose/system 60°C; drum preheat at least 25°C; confirm product-specific operating range
Nominal DFT / yield	Required for each intended exposure; no validated value supplied
Overcoat	Web maximum 24 hours; confirm surface condition and missed-window procedure
Colour	Grey listed; other options require approval
Storage / shelf life	Web 9 months; approved component storage and moisture protection required

Interpreting the data

Values depend on the stated temperature, humidity, film build, test method and substrate. Typical laboratory figures are not automatic project acceptance criteria. Changes to colour, thinner, aggregate, mix proportion or layer build can change performance.

Units and test basis

Keep mass and volume mixing ratios distinct. State whether solids are by mass or volume and whether thickness is WFT (wet film), DFT (dry film) or total system build. Coverage is theoretical unless an actual site yield is stated.

Substrate & work preparation

PREPARATION STAGE	REQUIRED APPROACH
Waterproofing design	Confirm positive/negative water pressure, drainage, falls, exposure, traffic and protection. Identify the responsible detail designer and the permitted substrate types.
Surface preparation	Remove laitance, contamination and weak coatings. Repair voids, sharp projections and unstable areas so the membrane can form a continuous layer.
Moisture condition	Measure moisture using the specified method. The required condition differs between cementitious, water-based and moisture-reactive products; do not apply one universal limit.
Movement and drainage	Detail joints, wall/floor changes, penetrations and drains before field coating. Nominate compatible sealants, bond breakers, reinforcement and termination methods.
Interface compatibility	Confirm the primer, membrane, adhesive, protection board and topcoat as a complete build. Trial uncertain old membranes and coated substrates before proceeding.

Establish the application release point

The applicator and responsible technical reviewer should accept the substrate, repairs, environmental conditions, material identity and system schedule before work starts. Record the moisture method and readings, substrate/air temperatures, humidity and condensation assessment where relevant.

Materials and equipment

Check labels, component pairing, batch numbers, expiry and storage history. Provide suitable mixing, application and inspection equipment, clean containers and calibrated measuring tools. Keep contaminated tools and residues away from fresh material.

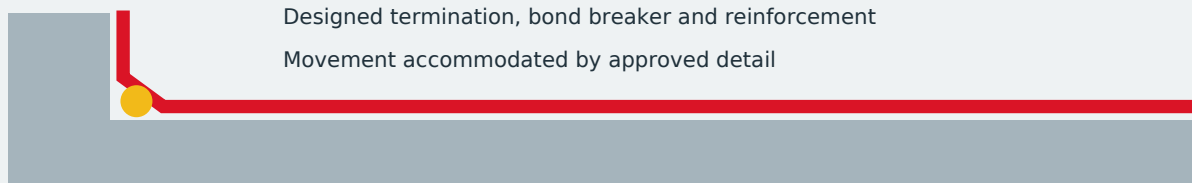
Representative trial

Where condition or compatibility is uncertain, trial the complete proposed preparation and coating sequence. Agree the sample location, cure time, appearance and adhesion assessment before extending the work.

Mixing & application

STEP	PRODUCT-SPECIFIC PROCEDURE
01	Verify component chemistry from formulation and current SDS, including whether the resin component is amine-based, polyol-based or hybrid. Product name alone does not establish pure-polyurea chemistry.
02	Prepare and prime to the approved concrete or steel specification. Seal pores and complete movement, penetration and termination details before rapid spray installation.
03	Commission the proportioner using the validated ratio, pressure balance and component temperatures. Perform a controlled test spray; inspect mixing, pattern and cure before spraying the work.
04	Build the approved membrane in controlled passes and record material use and thickness. Resolve overspray boundaries, recoat preparation and approved UV/traffic protection. Do not release for service on the basis of a 3–5 second reaction time.

WALL / FLOOR TRANSITION / CONCEPT SECTION



Substrate falls, drains and penetrations require separate project details

Concept drawing only; no dimensions, tested build, product compatibility or engineering approval are implied. Follow the approved project details.

Continuity and stopping points

Plan work to natural breaks and maintain a consistent application method. Do not stretch material beyond the approved coverage. Check intermediate surfaces before covering them; remove contamination and rectify defects using an approved repair procedure.

Out-of-window or interrupted work

When the permitted interval is exceeded, or rain, dust, condensation or site damage affects the surface, assess the condition before continuing. Use the validated cleaning, abrasion, re-priming or repair method; an apparently dry surface is not proof of intercoat adhesion.

Quantity, cure & sequencing

Set the accepted consumption and coat count before ordering. Measure actual area, include surface-profile demand, repairs and losses, and round reactive material to complete matched kits.

QUANTITY CONTROL	METHOD
Mass-rated product	Net kg = area (m ²) × kg/m ² per coat × number of coats. Add a documented allowance.
Volume-rated product	Net L = area (m ²) × L/m ² per coat × number of coats.
Film-forming coating	Theoretical m ² /L = 1,000 × volume-solids fraction / DFT (µm). Mass solids cannot replace volume solids.
Kits and losses	Order complete kits. State the basis of any waste allowance; profile, texture and application method affect practical yield.

Project quantities

A numerical ALKA ordering example has not been supplied where rate, density, solids or product identity is unresolved. Approve those inputs before finalising a project estimate.

Source timing / release references

STAGE	TIME / CONDITION
Reaction reference	3–5 seconds on web; define gel/tack time, not service release

Plan around actual conditions

Temperature, humidity, ventilation, substrate absorption and thickness affect drying and cure. Pot life, open time, touch dry, overcoat time and service release describe different conditions. Record when reactive components are combined; do not extend working life with unapproved water or solvent.

Release to service

Use the technically approved schedule for the actual load or exposure. Chemical immersion, vehicle loading, water testing, stacking and washing may require different release points where those duties are specified. Do not infer readiness from surface appearance alone.

Inspection, safety & handover

HOLD POINT	RECORD / VERIFY
Before work	Accepted substrate and details; material/version; approved colour/build; environmental conditions and trial result.
During application	Component/tint batches; proportions; mixing and placement times; measured area, quantity and thickness; coat count and interruptions.
Before next layer	Surface condition; permitted interval; defects and repairs; primer/receiving-layer compatibility.
Before service	Cure conditions and elapsed time; final inspections; approved test results; repairs completed and rechecked.

Product-specific checks

- Inspect details and primer before covering them.
- Measure each coat's consumption/WFT and verify the specified completed DFT where applicable.
- Use approved flood/continuity testing only after the required cure and before concealment.

Investigate defects before covering them

Softness or delayed drying calls for a review of identity, proportioning, conditions and thickness. Bubbles or pinholes call for a review of moisture, porosity, air entrainment and application rate. Loss of adhesion requires locating the failure plane and correcting preparation or interface problems. Isolate affected areas; do not conceal uncured or unsound material.

Safe handling and cleaning

Read the current SDS for the actual product and every component, thinner and cleaner. Use the specified ventilation, personal protection and site controls. Spray, abrasive preparation and confined-space work need competent planning. Do not assume water-based, low odour, cured appearance or high solids means non-hazardous.

Use only the product-approved cleaner before material cures; keep cleaning solvent separate from coating thinner. Collect residues and protect drains. Cured material normally needs an appropriate mechanical removal method; avoid damaging the sound substrate.

Maintenance and handover

Keep drainage clear and inspect terminations, penetrations and movement joints. Repair punctures and local defects with the approved preparation and overlap procedure. Protect the membrane from subsequent trades and retain inspection records before concealment.

Retain the installed system, batch and application records, inspection results, repair details and agreed cleaning/reopening instructions. The approved TDS and current SDS should be available to the applicator and owner.