01 / PRODUCT POSITIONING

N300 Positioning & Roof Waterproofing

N300 Polyaspartic Polyurea Waterproofing Coating

A+B | BASF aliphatic system. Confirm source by batch.

Core grade for long-term exposed concrete roofs and terraces.

A two-component coating composed of aliphatic isocyanate prepolymer and polyaspartic ester resin focuses on flexibility, waterproofing, weather resistance and substrate adhesion in long-term outdoor exposure environments.



2 kg kit (A 1 kg + B 1 kg)



20 kg kit (A 10 kg + B 10 kg)



Roof-waterproofing illustration; confirm colour and application details for the project.

Core applications

Concrete roofs, terraces, long-term exposed waterproofing and coastal building protection.

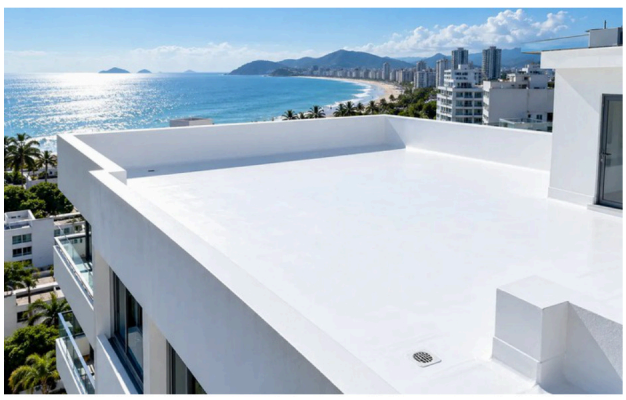
For waterproofing concrete roofs, tiled roofs and terraces, choose N300 for long-term weather resistance and N700 for standard weather resistance.
Check the substrate, drainage and details before work. Prepare tiled surfaces and test adhesion.

01A / APPLICATION SCENES

Six Waterproofing Applications



Terrace spray application



Coastal-building roof terraces



Decorative villa-wall waterproofing



Clear waterproofing on stone



Tiled rooftop & terrace waterproofing



Clear exterior-wall waterproofing

Application illustrations, not project-case or test evidence. Tiles must be sound, clean and dry; test adhesion and compatibility first. Roof thermal performance depends on the complete system and relevant testing. For clear coatings, confirm sample appearance, colour and compatibility first.

02 / TYPICAL TECHNICAL DATA

Typical Data and Evidence Limits

Parameter	N300 typical value or company requirement
Mix ratio	A:B = 1:1 by mass
Shore hardness	Shore A 86 (company value)
Application window	About 1 hour at 25°C. Confirm the recoat interval separately.
Total for all coats	1.3 kg/m²
Indicative thickness	About 1.2 mm
Tensile strength	⩾10 MPa (company requirement)
Elongation at break	⩾150% (company requirement)
Concrete adhesion	Verify on a concrete test patch.

Submitted specimens and test evidence	
Report TL26080331 gives results for the submitted specimens under the test conditions, without separate results by model.	
Tensile strength	13.00 MPa
Elongation at break	177%
Tear strength	42 kN/m
Adhesion	Concrete 4 MPa, tile 7 MPa, steel 5 MPa
Solids content	92.6%

Gaodun’ s 4,000-hour artificial weathering data come from separate laboratory verification. Consult the applicable TDS, batch COA and project records for supply requirements.

03 / APPLICATION & INSTALLATION

Application and System Design



01 Substrate inspection

The base layer should be solid, dry, clean, free of oil stains, laitance, looseness, hollows and old coatings that affect adhesion.

02 Detail reinforcement

Cracks, internal and external corners, drainage outlets and overlapping parts should be repaired according to project conditions and treated with reinforcing layers.

03 Mixing Parts A and B

Components A and B are accurately weighed and mixed thoroughly according to the mass ratio of 1:1, and the batching amount matches the application time.

04 Successive coats and film formation

Apply 2-3 coats in alternating directions for even coverage. Apply each subsequent coat only when the previous coat meets the recoat conditions.

Application limits

Avoid persistently damp, enclosed spaces such as bathrooms and kitchens. Avoid applying N300 directly over untreated rubberized asphalt waterproofing. Test adhesion on tile, stone, metal and existing coatings before application.

The final effect is determined by base treatment, material ratio, construction dosage, film thickness, ambient temperature and humidity, and maintenance. On-site prototypes should be completed before large-scale construction.

04 / LIMITS, STORAGE & SAFETY

Storage, Safety and Traceability

Packaging and storage

Store components A and B in original packaging in a cool, dry and ventilated place, away from moisture, direct sunlight and high temperatures. Packaging specifications, shelf life and storage temperature are subject to product labels and supply documents.

Safety

Wear protective gloves, goggles and appropriate respiratory protection when mixing and applying, and maintain ventilation. Components A and B are identified and managed separately; hazard, first aid, transportation and waste information are subject to the corresponding SDS.

Quality and compatibility

Color, viscosity, cure speed and mechanical properties may be adjusted based on formulation, batch, environmental and project requirements. Base assessment, adhesion tests and on-site samples should be completed before large-scale construction.

Source documents and responsibility

Model-specific TDS: positioning, typical values and system requirements. TL26080331: submitted-specimen test results. Company laboratory records: separate validation. Batch COA and project confirmation: actual delivery and application requirements.

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