01 / PRODUCT POSITIONING

N700 Positioning and Packaging

N700 Polyaspartic Polyurea Waterproofing Coating

A+B two-component; German Covestro HDI aliphatic system. Cost-effective model for roof, terrace and tile renovation.

Using Covestro HDI aliphatic raw material system, focusing on outdoor waterproofing, weather resistance and surface protection, it balances performance and project cost in conventional roof, terrace and ceramic tile renovation scenarios.

Pack sizes



2 kg kit
A 1 kg + B 1 kg



20 kg kit
A 10 kg + B 10 kg

Packaging illustration: confirm labels and actual supplied pack sizes.

Core applications

Waterproofing for concrete roofs, tiled roofs and outdoor terraces.

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.

02 / TYPICAL TECHNICAL DATA

Typical Data and Evidence Limits

Parameter	N700 typical value or requirement
Mix ratio	A:B = 1:1 by mass
Chemistry / hardness	Aliphatic HDI system; Shore A 75 (company value)
Pot life after mixing	Approx. 1 hour at 25 °C
Typical total use	1.3 kg/m²
Film thickness	Approx. 1.2 mm
Tensile strength	⩾10 MPa (company requirement)
Elongation at break	⩾150% (company requirement)
Substrate adhesion	Verify on a concrete or tile test patch.

Submitted specimens and test evidence

Report TL26080331 gives results for the submitted specimens under the test conditions. It does not give separate results for each model.

Tensile strength	13.00 MPa
Elongation at break	177%
Adhesion to concrete	4 MPa
Adhesion to tile	7 MPa
Adhesion to steel	5 MPa
Water impermeability	0.4 MPa for 2 h, no water penetration
Solids content	92.6%

For N700 supply, consult the applicable TDS and batch COA.

For concrete roofs, tiled roofs and terraces, select N700 for standard weather resistance or N300 for long-term weather resistance.
Check drainage, substrate condition and details. Prepare tiled surfaces and verify adhesion before application.

Application illustrations



Roller application on a tiled roof



Squeegee and roller on a terrace



Roller application across the roof



Spray application on a terrace



Finished roof coating



Finished coating on a roof with equipment

Images illustrate methods and finishes only; project and test evidence is separate.

03 / APPLICATION & INSTALLATION

Application and System Design

01 Substrate inspection	Concrete, mortar or tiles should be solid, dry, and clean. Looseness, hollows, and cracks should be dealt with first.
02 Detail reinforcement	Internal and external corners, cracks, drainage outlets and overlapping parts should be strengthened according to project conditions.
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 used within the specified time.
04 Application in successive coats	It is recommended to cross-apply 2-3 times. Apply the next layer after meeting the recoating conditions, and confirm the dosage and film thickness.

Application limits

It is not recommended to be used in long-term moist closed environments such as bathrooms; do not directly coat asphalt, membrane or old flexible waterproofing layer without verification. Ceramic tiles, stone and metal must be verified for adhesion and compatibility first.

Coating performance depends on surface preparation, mix ratio, application rate, film thickness, ambient temperature, humidity and curing conditions. Complete an on-site test patch before applying the coating to the full area.

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.

Shenzhen Gaodun New Materials Co., Ltd.

Since 2016 · R&D, synthesis, production and application support
+86 755 25100730 / +86 13692229000
sz693310742@gmail.com | www.gao-dun.com
Room 1702, Baoyunda R&D Complex, Bao’an District, Shenzhen, China