01 / PRODUCT POSITIONING

N700 Product 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 shown: Parts A and B. Specifications, color and labels follow the supplied batch.

Core applications

Waterproofing for concrete roofs, tiled roofs and outdoor terraces.

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

02 / TYPICAL TECHNICAL DATA

Typical technical data and scope

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

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



Roller application across the roof



Spray application on a terrace

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



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 procedure

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 / STORAGE, SAFETY & TRACEABILITY

Packaging, storage and safety

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.

Safe handling

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 verification

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.

Technical support

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