

Gemini[®] Construction Hydrophobic Protector

AnB-135

[Introduction]

AnB-135 is a high-durable hydrophobic nano-coating protector for building materials. It is a water-based one-part self-drying type. Combining ramified compact adhesion with non-toxic eco friendly, it can effectively prevent water, oil and stains from penetrating into the substrate system, it can enhance gloss, has high transparency, high hardness, 0 VOC, no odor, anti-sticking, anti graffiti, easy to clean, good thermal shock results, flame retardant, moisture and mildew resistance, damp and heat resistance, acid and alkali resistance, friction resistance, long-term reliability, it brings water repellency and shielding to various substrates , keeps it bright and clean.

[Typical Properties]

Properties	Units	AnB-135
Solid	Wt%	25
Appearance	/	White translucent liquid
Density	g/cm ³	1
Solvent	/	Water
Baking Temperature / Time	/	Self-drying 24 hrs

[Performance]

Test Item	Test Method	AnB-135
Water contact angle	10~20 μ L Water	110°
Film color/thickness	Observation / μ m	Transparent/5~10
Hardness	Pencil hardness tester	5H
Adhesion	Cross-Cut Tester	Grade 0
Durability	UV、rain aging chamber	3~5 years
Abrasion Durability	Taber, 10 cycles with CS10 wheel	Good
Solvent Resistance	99.5% alcohol whipping, load 500g/cm ² , 100cycle	Good
Acid / Alkali Resistance	30%HCl、30%NaOH drip on the substrate, standing time 24hrs	Good
High Temp/High Humidity	85°C × 85%RH × 24 hrs	Good
Thermal Shock	-40°C × 1hr \rightleftharpoons 85°C × 1hr, 10cycle	Good
Salt Water Spray Test	5% NaCl, temperature 35°C, test time 1000 hrs	Good
Heat Resistance	150°C × 30mins \rightleftharpoons 25°C × 15mins, 10cycle	Good

[Applications]

Used in building roofs, interior / exterior walls, furniture, building construction / decoration materials for waterproofing and anti fouling, structural parts, landscapes, outdoor marine and scenic facilities etc.

[Applicable substrates]

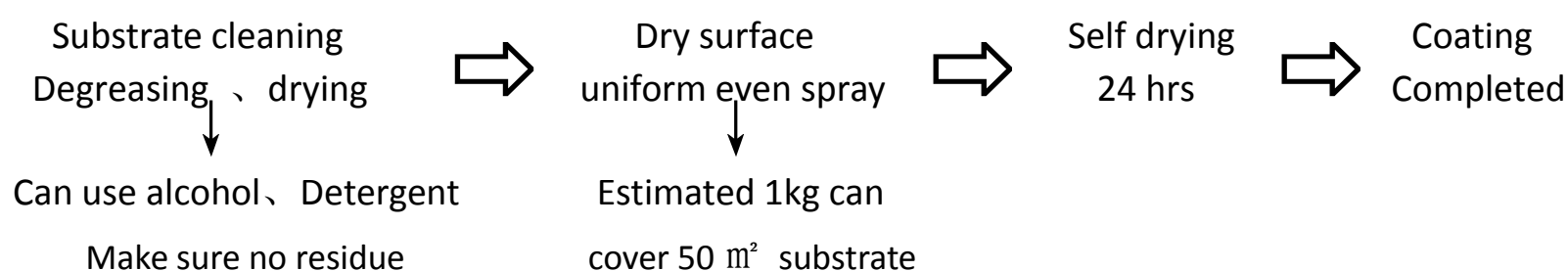
metal, paint, plastic, ceramic, wood, cement, stone etc.

[Processing Method]

Spraying, dipping, brushing, rolling. Suggest spraying, make sure the coating is uniform and even. The temperature of the surface to be sprayed should be 5°C~35°C. Keep containers at room temperature prior to use. All surfaces need to be dry and free from wax, grease, and polishes for good adhesion.

Shake the container vigorously for 30 seconds before open it. The nanoparticles in it must be dispersed properly before and during spraying. Please clean the spray gun with alcohol before and after spraying to avoid cross contamination. The spray gun is set to low pressure and low volume. One-time spraying can achieve certain effect, overlapping spraying can be done as needed. Use 200 mesh screen in the roller. Self drying time is 24 hrs, then can move or transport, make it longer in winter.

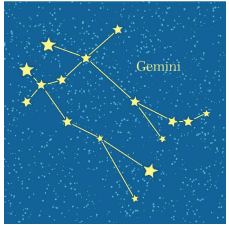
Allow the treated surface to dry for over 24 hours before exposing to rain and will reach maximum durability after 2 days, so suggest testing after 3 days. For best long- term performance avoid imposing excessive mechanical friction or other surface treatments.



[Attention]

- During processing, avoid direct contact with the skin, using gloves and safety glass in the test. If skin contacts with products, immediately wipe with a dry cloth and then wash skin with soap and water, If eyes contact with products, immediately flush eyes with plenty of water for at least 5 minutes, and call a physician.
- Keep the container sealed and store between 5~35°C, well ventilated locations, shelf life is 1 year.

[Packaging/Transport] 25kg plastic jug. Not classified as dangerous in the meaning of transport regulations



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