

Gemini[®] Anti-adhesion Anti-graffiti Coating

AnO-160

[Introduction]

AnO-160 is a highly durable hydrophobic, oleophobic and anti-adhesive nano coating agent. It is a solvent-based one-part self-drying type. Combining interface compact adhesion with non-toxic eco friendly, it has high transparency, high hardness, no odor, anti-sticking, anti graffiti, easy to clean, good thermal stability, flame retardant, moisture and mildew resistance, damp and heat resistance, acid and alkali resistance, friction resistance, long-term reliability, it brings non-stick and shielding to various substrates , keeps it bright and clean.

[Typical Properties]

Properties	Units	AnO-160
Solid	Wt%	80
Appearance	/	Light yellow transparent liquid
Density	g/cm ³	1
Solvent	/	TEOS
Baking Temperature / Time	/	Self-drying 24 hrs

[Performance]

Test Item	Test Method	AnO-160
Water/oil contact angle	10~20 μ L Water / 10~20 μ L Hexadecane	105° / 60°
Film color/thickness	Observation / μ m	Transparent/ 30~60
Hardness	Pencil hardness tester	5H
Adhesion	Cross-Cut Tester	Grade 0
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 \times 85%RH \times 24 hrs	Good
Thermal Shock	-40°C \times 1hr \leftrightarrow 85°C \times 1hr, 10cycle	Good
Salt Water Spray Test	5% NaCl, temperature 35°C, test time 500 hrs	Good
Impact Resistance	300N/cm ² front impact and back impact	Good
Heat Resistance	150°C \times 30mins \leftrightarrow 25°C \times 15mins, 10cycle	Good

[Applications]

Used in building roofs, interior / exterior walls, building construction / decoration materials for waterproofing and anti fouling, municipal utilities, shops&markets, street facilities cabinet, elevator, door&window, railings, furniture, structural parts, landscapes, public facilities etc.

[Applicable substrates]

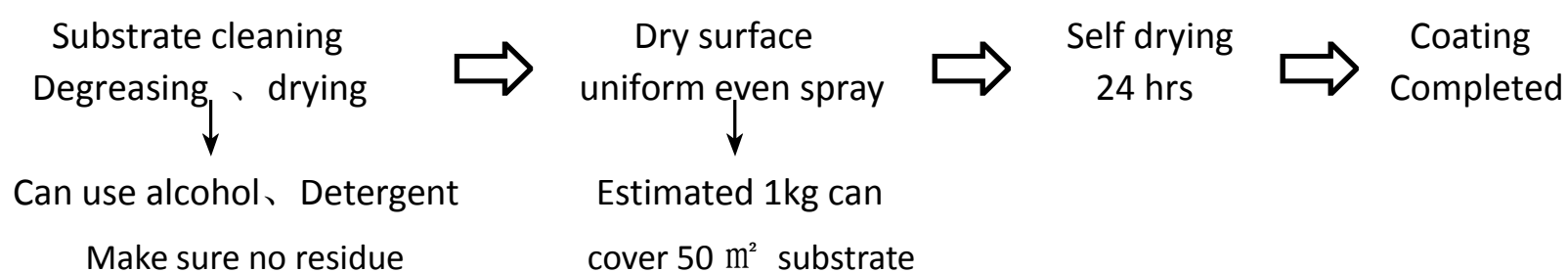
metal, paint, plastic, rubber, ceramic, glass, wood, cement, stone, concrete, brick, tile etc.

[Processing Method]

Spraying, 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.

Please clean the spray gun with butyl acetate before and after spraying to avoid cross contamination. The spray gun is set to low pressure and low volume. In order to achieve good effect, make sure the coating thickness > 30 μ m. Use 200 mesh screen in the roller. Self drying time is 24 hrs. Surface drying time is 2 hrs, then can move or transport, make it longer in winter.

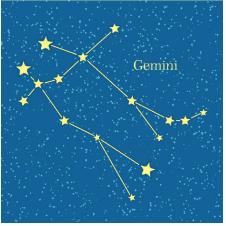
Allow the treated surface to dry for over 24 hours before exposing to rain and will reach maximum durability after 2 days, so suggest testing after 3 days. For best long- term performance avoid imposing excessive mechanical friction or other surface treatments.



[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. Finish it all once after open, or tight seal again from air, it is moisture sensitive.

[Packaging/Transport] 25kg plastic jug. Classified as dangerous in the meaning of transport regulations



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