

T06W-UV



Polyurethane top coat for outdoor exposure.

T06W-UV is 2-component, high-performance, water-based top coat, based on hydroxylated polyurethane resins cured (non-yellowing type) with aliphatic hardener. Due to its excellent adhesion, weather resistance, chemical resistance, beautiful appearance, and excellent color retention ability, it is applied for the purpose of protecting intermediate materials upon the exterior painting preventing. Finish is optional at gloss or matte.

TECHNICAL DATA:

NO.	ITEM	VALUE
1	The weight of part A (clear)	18 kg
2	The weight of part B (clear)	3 kg
3	The total weight of A + B	21 kg
4	Density of mixed resin	1.1kg/l @23°C
5	Volume/ SOLID	45%
6	Weight /SOLID	50%
7	Pencil hardness	3H (14 days / +23 °C)
8	Impact resistance	Heavy load (1000g steel ball)
9	Abrasion resistance	0.01g(750g/500r)
10	Adhesive tensile strength	1.5 N/mm ² (concrete failure) > 3.0 N/mm ² (aluminum)
11	Mixing ratio (in weight)	3:1 (by weight)
12	Dosage	Appr. 0.2kg/m ²
13	TG	-30 °C
14	Ambient atmospheric temperature	Minimum +10 °C / Maximum +30 °C
15	Relative humidity of air	Maximum 80% relative humidity
16	dew point	The substrate should be at least 3° above the dew point to reduce the risk of condensation and floor cracking.
17	Substrate temperature	Minimum +10 °C / Maximum +30 °C
18	Water content of the substrate	< 4% pbw
19	Operating time	10°C@ 60-120 mins 20°C@ 60- 120 mins 30°C@ 60 -120 mins
20	Curing time	10 °C, 24 hours 20 °C, 18 hours 30 °C, 16 hours
21	Tack-free time	30- 60 mins

CONSTRUCTION NOTES:

Mixing Ratio:

- The weight ratio of Component A to Component B is 6:1 (A:B).

Mixing Instructions:

- Mix the components thoroughly for 3–5 minutes manually or mechanically, until a uniform consistency is achieved.
- The mixed primer must be applied within 30 minutes using a roller or brush.
- NOTE: Do not add any thinning agents or foreign materials to the primer.

Application Timing:

- The next process (e.g., topcoat application) should be conducted after the previous application becomes tack-free.
- If the next process is delayed beyond 24 hours after the tack-free time, an additional coat of primer must be applied.
- Reapply the primer if rain or adverse weather conditions occur after the initial application.

Quartz Sand/Powder Addition:

- Quartz sand, powder or glass microbeads can be added to the coating on-site if required to form a matte finish.
- The recommended amount of quartz is 1–1.5 times the total weight of the coating.
- Ensure the quartz is completely dry and free from moisture before mixing.

HEALTH AND SAFETY:

Respiratory Protection:

When handling or spraying, always use an air-purifying respirator to protect against inhalation of harmful substances.

Skin Protection:

Wear rubber gloves and remove them immediately if they become contaminated. Ensure your body is fully covered with clean, protective clothing. After completing work, and before eating, drinking, or smoking, wash thoroughly with soap and water.

Eye/Face Protection:

Wear safety goggles to prevent splashes or exposure to airborne particles.

Waste Management:

Minimize or avoid waste generation whenever possible. If waste is produced, incinerate it under controlled conditions in compliance with local and national regulations.

Re-occupancy Guidelines:

Do not re-enter the work area without respiratory protection for at least 24 hours after spraying, ensuring proper ventilation is maintained.

Compliance:

Contractors and applicators must adhere to all applicable storage, safety, and handling guidelines. These safety measures are critical during the implementation process, as well as before and after exposure to

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loading machinery.

Waste Disposal:

Dispose of all waste in accordance with state and/or local regulations.

These precautions are essential to ensure the health and safety of all individuals involved in the process

RECOMMEND TOOLS:

The product can be applied manually using methods such as: trowel or scraper application, brushing with a short-bristle brush, or roller coating with a durable, short-nap roller. For a more efficient and even application, specialized spraying equipment can also be used.

RECOMMEND USAGE:

Normally, it is about 0.2kg /m².

PACKING:

Component A, 18 kg/pail,

Component B, 3 kg/pail.

STORAGE AND TRANSPORTATION:

The product should be sealed and stored in a dry, cool, and well-ventilated area, away from direct sunlight, rain, and any sources of fire.

When kept in its original packaging and under the prescribed storage conditions, the product has a shelf life of 6 months from the date of production.

After opening the drum, please use the product as soon as possible and reseal the container when not in use.

The materials should be stacked stationary and handled carefully during transportation to avoid any violent collisions.

DISCLAIMER:

The information provided in this Technical Data Sheet (TDS) is to assist customers in determining whether our products are suitable for their applications. Our products are only intended for sale to industrial and commercial customers. We warrant that our products will meet our written liquid component specifications. The customers are advised to conduct their own tests and evaluations to ensure suitability for their intended application. Always follow local regulations, safety guidelines, and manufacturer recommendations.