

# MPU F06N-SA-UV PURE POLYUREA FOR OUTDOOR CLEAR COAT



## DESCRIPTION:

Two components, high performance, solvent-based, transparent coating liquid, with clear pure polyaspartic acid ester resin as the main component (part A) and aggregate as component B. It is specially designed to serve as a protective and functional final layer, enhancing durability and performance. It forms a textured, seamless, watertight and waterproof membrane once dried. It has superior UV-stable prosperity.

## FEATURES:

Anti-Graffiti Resistance:

**F06N-SA-UV** forms a chemically resistant, non-porous surface that prevents permanent adhesion of paints, markers, or adhesives, enabling easy removal of graffiti without damaging the underlying substrate.

Lotus Effect (Self-Cleaning):

**F06N-SA-UV** incorporates hydrophobic properties and micro-textured surfaces to repel water, oils, and dirt. This "easy-clean" functionality minimizes staining and reduces maintenance efforts, particularly in high-traffic or hygiene-sensitive areas.

Enhanced Durability:

**F06N-SA-UV** protects against abrasion, impact, UV degradation, and chemical exposure (acids, alkalis, solvents), extending the lifespan of the flooring system.

## CONSTRUCTION SITE:

- F06N-SA-UV is the ideal application for Chemical & Corrosive Environments such as Chemical processing plants, laboratories, and pharmaceutical facilities exposed to acids, alkalis, solvents, or oils.
- For Hygiene-Critical Spaces such as food & beverage production, dairy plants, and cleanrooms requiring seamless, non-porous, and bacteria-resistant surfaces.
- For Outdoor & UV-Exposed Surfaces such as parking decks, airport tarmacs, or sports facilities where UV stability and weather resistance are critical.

NOTE: call our technical department about the application to other environment.

## DESIGN CRITERIA:

The sealcoat is designed for application in one coat.

## APPLICATION METHOD:

Mix and stir the components using a mechanical shaker for approximately 4-5 minutes (medium speed). Apply thin coats until the desired planimetry is achieved. Consumption between 0.1 and 0.2 kg/sqm on the smooth topcoat. Consumption between 0.2 and 0.3 kg/sqm on the surface with nodes.

NOTE: For other types of substrates, weather conditions or final use, consult our technical department

## NOTE:

Components A and B are typically used with polyurethane - grade thinner. A 5kg amount is recommended, and clients can source this locally.

# TDS. TECHNICAL DATA SHEET



MPUTOPCOAT F06N-SA-UV

## TECHNICAL DATA:

NO.	ITEM	VALUE
1	The weight of component A	20kg
2	The weight of component B	10kg
3	The total weight of A + B	30kg
4	Density of mixed resin	1.4kg/l @23°C
5	Volume ratio of cured components	Part A: Appr. 100% Part B: Appr. 100%
6	Weight ratio of cured components	Appr. 100%
7	Pencil hardness	Appr. 5 H
8	Impact resistance	Heavy load: 1000g steel ball (14 days / +23 °C)
9	Abrasion resistance	0.01g (750g/500R) (14 days / +23 °C)
10	Adhesive tensile strength	1.5 N/mm <sup>2</sup> (concrete failure) > 3.0 N/mm <sup>2</sup> (aluminum)
11	Mixing ratio (in weight)	Part A : Part B = 2:1 (by weight)
12	Dosage	Appr.0.1-0.15kg/m <sup>2</sup>
13	Inter layer thickness	0.2 kg/m <sup>2</sup> - The inter layer thickness is approximately 0.15 mm
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 @45min 20 °C @30min 30 °C @25min
20	Curing time	10 °C, 24 hours ~ 36 hours 20 °C, 12 hours ~ 18 hours. 30 °C, 8 hours ~ 16 hours.

## CONSTRUCTION NOTES:

### Mixing Ratio:

- The weight ratio of Component A, Component B is 2:1 (A:B)
- The weight ratio of Component A, Component B, thinner is 2:1:0.5

### 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 last 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.



# TDS. TECHNICAL DATA SHEET

**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 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 0.1 -0.2kg /m<sup>2</sup> , and the thickness of one-time construction is about 0.1 – 0.2mm.

**PACKING:**

Component A, 20kgs/pail,  
Component B, 10kgs/pail.

**STORAGE AND TRANSPORTATION:**

The primer 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.