



TOA 4 SEASONS TROPIC SHIELD

DESCRIPTION

TOA 4 SEASONS TROPIC SHIELD is exterior emulsion paint made from Acrylic emulsion with advantages:

- + Low sheen paint film and high opacity.
 - + Good resistance against severe weather condition: good light fastness, anti-color fading, chalking resistance, anti-fungus and algae, alkaline resistance.
 - + No added lead, mercury, formaldehyde in the formula.
- Besides, 3M Fluorosurfactants - anti dirt pick up additives provide paint film with long lasting brightness and beauty.

TYPICAL USES

TOA 4 SEASONS TROPIC SHIELD is suitable for new and previously painted exterior masonry surface such as concrete, mortar, cement plaster, brick, gypsum board, light cement board, etc.

PHYSICAL PROPERTIES

- **Components:** Acrylic, pigments, additives & water
 - **Color:** Refer to catalogue and TCW fan-deck
 - **Finish** Matt
 - **Solids by volume:** 37+/- 2
 - **Theoretical coverage:** 9.3 - 12.3 m²/liter/coat
- Actual surface coverage will be depended on the spreading of paint film ability, dry film thickness, surface irregularities, technique and wastage during painting.*

- **Volatile Organic**

Compound (VOCs): ≤ 50 g/L

- **The drying time, Relative Humidity (RH) 50%**

	20°C	30°C	35°C
○ Substrate temperature	20°C	30°C	35°C
○ Surface (touch) dry	1h	0.5h	0.3h
○ Hard dry	6h	4h	3h
○ Painting interval, minimum	4h	2h	1.5h

The actual drying time and painting interval time may be longer or shorter, depending on the ambient temperature, film thickness, ventilation, humidity, number of paint coatings, etc.

RECOMMENDED PAINT SYSTEM

PAINT SYSTEM	PRODUCT	NUMBER OF COAT(s)
Putty	TOA WALL MASTIC EXTERIOR	2
Primer	TOA 4 SEASON SEALER	1
Topcoat	TOA 4 SEASONS TROPIC SHIELD	2

APPLICATION INSTRUCTION

- **SURFACE PREPARATION**

New surface

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Let the concrete, cement plaster and mortar must be cured at least 28 days in ambient condition (average temperature is 25°C -30°C, relative humidity <75%), the surface moisture is not exceed 16% (specialized measuring testing equipment). pH value is about 6-9.

Remove all dust, grease, wax, laitance, chalking and others contamination from the surface by specialized machine as: grinding, sanding, vacuum cleaner, high pressure water jet and proper cleanness.

Apply 2 coats TOA WALL MASTIC EXTERIOR for smooth surface.

Old surface

Remove all dust, fungus, algae, loose old paint or others contamination from the surface by specialized machine as: Grinding, sanding, vacuum cleaner, high pressure water jet and proper cleanness.

Then, treat the areas attacked by fungus, algae with proper chemicals.

Wash the surface if required, let it fully dry, the substrate moisture must be lower than 16% (specialized measuring testing equipment)

Repair the damaged area. Cracks bigger than 0.1mm must be fixed and make smooth by TOA WALL MASTIC EXTERIOR

Apply 1 coat of premium multipurpose primer - TOA HYDRO QUICK PRIMER for chalky or powdery surface after making surface clean.

▪ APPLICATION METHOD

Application tools: Brush, roller, conventional spray

Guiding data for airless spray

- **Nozzle tip size** : 0.021 – 0.027"
- **Spray angle degrees** : 65 – 80°
- **Pressure at nozzle** : 140 – 190 Kg/cm² (2.000-2.600 Psi)

Film thickness:

	Min	Standard	Max
- Dry film thickness:	30µm	35µm	40µm
- Wet film thickness:	81µm	95µm	108µm

Film thickness will vary and is calculated as average

Dilution:

The paint is ready to use after proper stirring until homogeneous.

If thinning is required, clean water may be added up to a maximum of 5%.

CERTIFICATES

Green Label No. 032-246-3486 Singapore Environment Council

Conformity Regulation certified: QCVN 16:2019/BXD - National Technical Regulations on Products, Goods of Building Materials for Emulsion paint (Interior & Exterior)

Conformity Standard certified: TCVN 8652:2012 - National standards on wall emulsion paints - specifications

Conformity Regulation certified: QCVN 08:2020/BCT - National technical regulation on the limits of lead content in paints

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STORAGE & HANDLING

Store in a dry, cool, good ventilation area, shaded area. Keep out of reach of children. Storage temperature about 25°C - 35°C.

Ensure that the right primer is used. Should use putty and let it thoroughly cure before painting.

Stir well before use and once opened, entire contents should be used.

Apply when temperature is from 10°C to 35°C and relative humidity <75%. Surface temperature must be 3°C higher than the dew point.

HEALTH AND SAFETY

Please do not handle until all safety precautions have been read and understood.

Keep away from heat, sparks, open flame, hot surface. No smoking.

Wear protective gloves, respirator, eye protection, protective clothing.

Avoid contact with skin, eyes or ingestion. Go right to the nearest health center for help in case of ingesting paint or paint contacts with eyes.

Avoid release to the environment. Treat discarded paint according to environmental law.

See more guidelines in the Safety Data Sheet.

PACKING SIZE

18 liter; 5 liter; 1 liter

DISCLAIMER

The information in this data sheet is given to the best of TOA's knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond TOA's control. TOA cannot guarantee anything only the quality of the product itself. TOA reserve the right to change given data without further notice.

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