TOA
FLOORGUARD PU 100
NON-SLIP

Technical Data Sheet

TOA

Rev. 1 10/2017

FEATURES

: Floorguard PU 100 Non-Slip is three-pack polyurethane topcoat give a non slip floor finish with excellent gloss and retention designed for exterior . Use for floor coating have excellent durability and adhesion, excellent chemical resistance and abrasion resistance .

: As a topcoat over an epoxy system in used where non slip areas are required in locations can be applied on concrete surface.

It is a UV light protective for factory floor, cagewash areas, chemical processing plants, warehouse, factory, food and beverage plants.

TECHNICAL INFORMATION

Type	: Acrylic Polyurethane Topcoat (non-yellowing)		
Color	: White and other		
Film appearance	: Gloss		
Specific gravity	: 1.20 ± 0.05		
Solid by volume	: 56 ± 2 %		
Flash point	: 35 ˚C		

		Minimum	Maximum	Recommended
Dry film thickness	(Microns)	50	75	60
Wet film thickness	(Microns)	89	134	107
Theoretical coverage.	m^2 / Liter	11.2	7.5	9.3
	m^2 / Gallon	42.4	28.3	35.3
Practical coverage.	m^2 / Liter	10.0	7.0	9.0
	m^2 / Gallon	40.0	27.0	33.6

Remark : Actual Surface coverage will depend on surface irregularities, Mixing, Application Condition method and technique; as well as the structure and dimensions of the object to be coated.

	Temperature	25 ˚C	30 ˚C	35 ˚C
Touch dry	Surface dry	45 mins	30 mins	20 mins
Recoat dry	Hard dry	3 hrs.	2 hrs.	1.5 hrs.
Full cure	Minimum	8 hrs.	7 hrs.	5 hrs.
	Maximum	-	-	-
Potlife		10 hrs.	8 hrs.	6 hrs.

Remark : Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly.

FILM PERFORMANCE

Properties	Test Method	Criteria	Results
Adhesion	ASTM D 3359	5B	Passed
Flexibility	ASTM D 522 (Method B)	3 mm	Passed
Impact Test	ASTM D 2794	60 inch-pounds	Passed
Abrasion Resistance	ASTM D 4060	200 mg (Loss)	Passed
		CS-17 Wheels, 1000 g load, 1000 cycles	
Chemical Resistance	ASTM D 1308	24 hrs.	Passed

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APPLICATION

Mixing Ratio	Part A	Part B	Part C
By Volume	4	1	0.2
By Weight	5	1	0.5
Application Method	Airless Spray	Air Spray	Brush / Roller
Diluted by **TOA Thinner 43**	5–10	15–20	10–15
Applicator	Graco 415 / Graco 513	Coventional Spray (Iwata)	Short Hair Stiff Nylon Roller (Stanley) / Stiff Nylon Brush
Pressure	120–150 kg/cm^2	3–4 kg/cm^2	–

Mix Part A, Part B and Part C, strictly follow mix ratio recommendations before add Part C and dilute by Thinner mixing and stir for 2–3 minutes until the mixture is homogeneous after leave 5 minutes before application. While use paint for application should be stirred constantly to prevent Part C, which is a sand settle.

APPLICATION SYSTEM

Surface Preparation

Floor

: For New concrete – The concrete prior to laying plastic sheets to block moisture from underground. Then it should be left for curing concrete to solid and dry for about 3–4 weeks. Then, clean the surface free from dust, dirt, grease and most importantly, the surface is completely dry. (Check moisture content must be less than 10%)

: For Old concrete – To remove the old paint film which loosely adhesion to as much as possible by Scraping with a shovel or Grinding machine to enhance adhesion. Then, clean the surface free from grease and oil with suitable solvent. Before primer coating should clean all surfaces free from dust, dirt, grease and most importantly, the surface is completely dry. (Check moisture content must be less than 10%).

: For Floor Hardener or Surface glossy finish :

: Concrete surface preparation by using dust free captive blasting units, grinding equipment, sand blasting for increase adhesion of coating.

: Inspect the concrete for bug holes void, fin and other imperfections. Protrusions shall be ground smooth while voids shall be filled with Floorguard Putty or other suitable filler and polishing of surface with moltoprene disk.

: After cleaning, repair surface defects and remove detericrated previous coatings. (Check moisture content must be less than 10%).

Before Recoat by Topcoat

: Remover all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP1, Solvent Cleaning before coating.

: If over 7 days gives cleaning surface by sand paper no. 320–400 and cleaning surface per SSPC-SP1, Solvent Cleaning before coating.

: Surface repaire (cracks, pores, holes) done with Floorguard putty and polishing of surface with moltoprene disk.

Coating System

Concrete protective Coating

: Primer Floorguard Primer 50 microns x 1 coat

: Topcoat Floorguard PU 100 Non–Slip 50 microns x 2 coats

For Floor Hardener or Surface glossy finish

: Primer Penetrating Sealer 50 microns x 1 coat

: Topcoat Floorguard PU 100 Non–Slip 50 microns x 2 coats

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| **Recommendation** | : The proper relative humidity in the work shall not exceed 85% RH. |
| | : The temperature of the substrate should be minimum 10°C and at least 3°C above the dew point of the air , temperature and relative humidity measured in the vicinity of the substrate for prevent moisture and water drop on substrate effective adhesion and drying time. |

HANDLING AND STORAGE

Storage condition : The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition.

Shelf life : 24 months at 30-35 °C

Package

Packaging size	Part A :	Part B :	Part C :
1 Gallon Set	1 Gallon	1/4 Gallon	1/4 Gallon

HEALTH AND SAFETY

: Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

: For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Safety Data Sheet.

DISCLAIMER

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