TOPGUARD

Technical Data Sheet



Rev. 1 10/2017

FEATURES					Rev. 1 10/2017		
TEATORES	· TOPGLIAPD is	two pack acr	ulio polyurothano topoo	at with excellent alone and r	otantian designed for		
	 : TOPGUARD is two-pack acrylic polyurethane topcoat with excellent gloss and retention designed for exterior. It has excellent durability and adhesion, excellent chemical resistance and abrasion resistance. : As a topcoat over an epoxy primer for UV light resistance for factory floor, cagewash areas, chemical 						
	·	processing plants, warehouse, factory, food, beverage plants bridge, chemical tank, outside of steel structure					
	chemical plant and ship.						
TECHNICAL INFORMATION							
Туре	: Acrylic Polyurethane Topcoat (non-yellowing)						
Color	: White and other	: White and other					
Film appearance	: Gloss						
Specific gravity	: 1.20 <u>+</u> 0.02						
Solid by volume	: 56 <u>+</u> 2 %						
Flash point	: 35 °C						
		Minimum	Maximum	Recommended			
Dry film thickness	(Microns)	50	75	60			
Wet film thickness	(Microns)	89	134	107			
Theoretical coverage.	m² / Liter	11.2	7.5	9.3			
	m² / Gallon	42.4	28.3	35.3			
Practical coverage.	m² / Liter	10.0	7.0	9.0			
	m² / Gallon	40.0	27.0	33.6			
	Remark : Actual Surface coverage will depend on surface irregularities, Mixing, Application Conditi						
	method and ted	method and technique.					
	Temperature	25 °C	30 °C	35 °C			
Drying time	Surface dry	45 mins	30 mins	20 mins			
Full cure	Hard dry	8 hrs.	7 hrs.	5 hrs.			
Recoat dry	Minimum	3 hrs.	2 hrs.	1.5 hrs.			
,	Maximum	-	•				
Potlife		10 hrs.	8 hrs.	6 hrs.			
	Remark : Drvino			ulation, temperature, film t	hickness and number		
		-	correspondingly.				
FILM PERFORMANCE							
FILM FERFORMANCE	Duanauti		Took Madhaad	Cuitauia	Deculte		
	Properti	les	Test Method	<u>Criteria</u>	Results		
	Adhesion	• • •	ASTM D 3359	5B	Passed		
	Flexibility	AST	ΓM D 522 (Method B)	3 mm	Passed		
	Impact Test		ASTM D 2794	60 inch-pounds	Passed		
	Abrasion Resist	tance	ASTM D 4060	200 mg (Loss)	Passed		
		CS-1					
	Chemical Resis	tance	ASTM D 1308	24 hrs.	Passed		
APPLICATION							
	Mixi	ng Ratio	Part A	Part B			
	Ву	Volume	4	1			
	Ву	By Weight		1			

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Application Method	Airless Spray	Air Spray	Brush / Roller
Diluted by 5-10 TOA Thinner 43		15-20	15-20
Applicator	Graco 415	Coventional Spray	Short Hair Stiff Nylon Roller (Stanley)
	Graco 513	(Iwata)	Stiff Nylon Brush
Pressure	120-150 kg/cm ²	3-4 kg/cm ²	-

Mix Part A and Part B, strictly follow mix ratio recommendations before dilute by Thinner mixing and stir for 2-3 minutes until the mixture is homogeneous after leave 5 minutes before application.

APPLICATION INFORMATION

Surface Preparation

Steel

: Should be blast cleaned in accordance with NACE No.2 / SSPC-SP10 / ISO 8501:1 / SIS Sa 2.5 to a near-white finish using a suitable abrasive. And/or by use the surface preparation with requirements. of the primer and/or as the Spec of the project.

Remark: The surface must be thoroughly dry and apply the protective coating within 4 hours to cleaned surface.

Wall

- : <u>For New concrete</u> 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 14%)
- : <u>For Old concrete</u> 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 14%).

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 TOA Epoxy putty and polishing of surface with moltoprene disk.

Coating System

Protective protective Coating

: Primer Rusttech 100 microns x 1 coat : Topcoat Topguard 50 microns x 2 coats

Concrete protective Coating

: Primer Epoguard Varnish 50 microns x 1 coat : Topcoat Topguard 50 microns x 2 coats

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.

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HANDLING AND STORAGE					
Storage condition	: The product must be stored in accordance with national regulations. Storage conditions are to keep				
a	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				
	: 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.				
	Containers must be kept tightly closed.				
Package	Packaging size	Part A:	Part B :		
	1 Gallon Set	1 Gallon	1/4 Gallon		
	5 Gallon Set	5 Gallon	1 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	and practical experience.	However, as the producthing only the quality of	best of our knowledge based on laboratory testing ct is often used under conditions beyond our control, the product itself. We reserve the right to change		