PENETRATING SEALER

Technical Data Sheet



Rev. 1 10/2017

					Rev. 1 10/2017		
FEATURES							
	: PENETRATING SEALER is a high solid epoxy 2-pack chemically cured. It is designed as excellent adhesion and penetrat on concrete, green conrete, floor hardener, ceramic tile, excellent adhesion, toughness the contract of						
hardness, water resistance film coating.							
	: As a primer for concrete, green concrete, floor hardener, fiberglass, wood and ceramic tile						
TECHNICAL INFORMATION							
Туре	: Epoxy / Polyamide Primer						
Color	: Clear Red						
Film appearance	: Semi-Gloss						
Specific gravity	: 1.06 <u>+</u> 0.05						
Solid by volume	: 100 %						
Flash point	: 42 °C						
		Minimum	Maximum	Recommended			
Dry film thickness	(Microns)	50	100	50			
Wet film thickness	(Microns)	50	100	50			
Theoretical coverage.	m² / Liter	20.0	10.0	20.0			
	m² / Gallon	75.7	37.9	75.7			
Practical coverage.	m² / Liter	13.0	6.5	13.0			
	m² / Gallon	49.0	24.6	49.0			
	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	4.5 hrs.	4 hrs.	3.5 hrs.			
Recoat dry	Hard dry	6.5 hrs.	6 hrs.	5.5 hrs.			
Full cure	Minimum	10 hrs.	9 hrs	8 hrs.			
i dii odio	Maximum	_	_	-			
Potlife		2 hrs.	2 hrs.	1.5 hrs.			
	Remark : Drvino	Remark: Drying times are generally related to air circulation, temperature, film thickness and number					
	of coats, and will be affected correspondingly.						
FILM PERFORMANCE							
	Properti	es	Test Method	<u>Criteria</u>	Results		
	Adhesion		ASTM D 3359	5B	Passed		
	Flexibility	AST	M D 522 (Method B)	3 mm	Passed		
	Impact Test		ASTM D 2794	60 inch-pounds	Passed		
	Abrasion Resist	ance	ASTM D 4060	200 mg (Loss)	Passed		
		CS-17	Wheels, 1000 g load, 1000 cycles				
	Chemical Resis	tance	ASTM D 1308	24 hrs.	Passed		
APPLICATION							
	Mixi	ng Ratio	Part A	Part B			
	By Volume		2.2	1			
	By Weight		70	30			

PENETRATING SEALER

Technical Data Sheet



Rev. 1 10/2017

Application Method	Airless Spray	Air Spray	Brush / Roller			
Diluted by		45.00	10-15			
TOA Thinner 31	-	15-20				
Applicator	-	Coventional Spray (Iwata)	Short Hair Stiff Nylon Roller (Stanley) Stiff Nylon Brush			
Pressure	-	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 SYSTEM

Surface Preparation

Wall & 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 TOA Epoxy putty (for Wal) or Floorguard Putty (for Floor)and polishing of surface with moltoprene disk.

Paint System (Dry Film Thickness)

Concrete protective Coating
For Wall

: Primer Penetrating Sealer 50 microns x 1 coat
: Topcoat Epoguard Enamel 50 microns x 2 coats (for inside area)
or
Topguard (for outside area)

Technical Data Sheet



			Rev. 1 10/2017		
For Floor	: Primer	Penetrating Sealer	50 microns x 1 coat		
	: Topcoat	Floorguard 100	50 microns x 2 coats		
		(for inside area)			
		or			
		Floorguard PU 100	50 microns x 2 coats		
		(for outside area)			
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 temperature and relative humidity measured in the vicinity of the substrate for prevent moisture and water				
	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:		
	1 Gallon Set	1 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					
	: 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 withou	t notice.			