#### **COAL TAR EPOXY 111**

### **Technical Data Sheet**



Rev. 1 10/2017

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FEATURES							
	: Coal Tar Epoxy # 111 is a two-pack rust preventing coal tar epoxy paint.						
	: As a rust preventing coal tar epoxy for protective coating of tank interior, concrete, steel and underwater area.						
	It has excellent to chemical resistance, salt water, crude oil and dilute acids.						
TECHNICAL INFORMATION							
Туре	: High build rust preventing coal tar epoxy						
Color	: Black and Brown						
Film appearance	: Semi-Gloss						
Specific gravity	: 1.50 <u>+</u> 0.05						
Solid by volume	: 68 <u>+</u> 2 %						
Flash point	: 25 °C						
		Minimum	Maximum	Recommended			
Dry film thickness	(Microns)	100	150	125			
Wet film thickness	(Microns)	147	221	184			
Theoretical coverage.	m² / Liter	6.8	4.5	5.4			
	m² / Gallon	25.7	17.2	20.6			
Practical coverage.	m² / Liter	6.5	4.3	5.2			
	m² / Gallon	24.5	16.3	19.6			
	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	60 mins	50 mins	40 mins			
Recoat dry	Hard dry	16 hrs.	12 hrs.	8 hrs.			
Full cure	Minimum	16 hrs.	12 hrs.	8 hrs.			
	Maximum	7 days	5 days	3 days			
Potlife		8 hrs.	6 hrs.	4 hrs.			
11.5	Remark : Drvino		enerally related to air circ	_	m thickness and number		
	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		
	Pencil Hardness		ASTM D 3363	2H	Passed		
	Flexibility		STM D 522 (Method B)	3 mm	Passed		
	Impact Resistar		ASTM D 2794	60 inch-pounds	Passed		
	Abrasion Resist		ASTM D 4060	101 mg (loss)	Passed		
			17 Wheels, 1000 g load, 1000 cycles				
	Salt Spray Resis	stance	ASTM B 117	500 hrs.	Passed		
APPLICATION							
	Mixi	ng Ratio	Part A	Part B			
	By Volume		4	1			
	Ву	Weight	5.5	1			

Shelf life

# **Technical Data Sheet**



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	Application Method	Airless Spray	Air Spray	Brush / Roller		
	Diluted by TOA Thinner 31	5-10	15-20	10-15		
	Applicator	Graco 421	Coventional Spray (Iwata)	Short Hair Stiff Nylon Roller (Stanley)		
		Graco 423	, ,	Stiff Nylon Brush		
	Pressure	150-180 kg/cm²	3-4 kg/cm <sup>2</sup>	-		
	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						
<u>Steel</u>	: 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					
<u>Wall</u>	to cleaned surface.  : For New concrete - The concrete prior to laying plastic sheets to block moisture from undergouter it should be left for curing concrete to solid and dry for about 3-4 weeks. Then, clean the free from dust, dirt, grease and most importantly, the surface is completely dry.  (Check moisture content must be less than 14%)  : For Old concrete - To remove the old paint film which loosely adhesion to as much as possible Scraping with a shovel or Grinding machine to enhance adhesion. Then, clean the surface free grease and oil with suitable solvent. Before primer coating should clean all surfaces free from dirt, grease and most importantly, the surface is completely dry. (Check moisture content must less than 14%).					
Before Recoat by Topcoat	<ul> <li>: Remover all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP1, Solvent Cleaning before coating.</li> <li>: If over 7 days gives cleaning surface by sand paper no. 320-400 and cleaning surface per SSPC-SP1, Solvent Cleaning before coating.</li> <li>: Surface repaire (cracks, pores, holes) done with TOA Epoxy putty and polishing of surface with moltoprene disk.</li> </ul>					
	with motoprone disk.					
Coating System		- "444 40-				
Protective Coating	: Primer & Topcoat Coal Ta	ar Epoxy # 111 125 n	nicrons x 2 coats			
and Concrete protective Coating						
Recommendation	: The proper relative humidity in t : The temperature of the substrate temperature and relative humidity n on substrate effective adhesion	should be minimum 10°C neasured in the vicinity of t	and at least 3°C above	-		
HANDLING AND STORAGE						
Storage condition	: The product must be stored in a the containers in a dry, cool, we			-		

: 24 months at 30-35 °C

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#### **COAL TAR EPOXY 111**

# **Technical Data Sheet**



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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 precar	: Please observe the precautionary notices displayed on the container. Use under well ventilated				
	conditions. Do not breathe	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 o	: For detailed information on the health and safety hazards and precautions for use of this product,				
	we refer to the Safety Data	a Sheet.				
DISCLAIMER						
	: The information in this data sheet is given to the best of our knowledge based on laboratory testi and practical experience. However, as the product is often used under conditions beyond our cor we cannot guarantee anything only the quality of the product itself. We reserve the right to chang the given data without notice.					