



Ideal Development For Manufacturing Industries



Submittal Serial No. :				Rev.	
IDMI PKG1-Civil-SUB-76				0	
Subject :- Painting Material for Work Shop			Date: 15-Feb-2024		
Consultant :- Cosmos-E for Engineers and consultants . Contractor :- IHPCO&INTERITY JV .			SUBMITTED FOR *		CODE
			APPROVAL		1
			YOUR INFORMATION		2
			ACTION ** :-		
WE ARE SENDING HEREWITH / UNDER SEPARATE COVER, THE Technical Data sheet .			APPROVED		A
			APPROVED AS NOTED		B
			NOT APPROVED		C
			FOR INFORMATION		D
DRWS., SPEC. OR BOQ. REF.	DESCRIPTION	+ TYPE	CODE		1
			Submittal ¹	Action ²	
DIV01	Painting Material for Work Shop Steel Structure	MS		A	
		FOR CONTRACTOR :- Eng.Hussam			
		Date : 15-Feb-2024			
Consultant to enter Action Codes and Remarks, and return to Contractor					
REMARKS :					
CONSULTANT'S COMMENTS					
Color : grey Layers : 1st primer epoxy → 50μ 2nd epoxy → 50μ 3rd epoxy → 50μ → total 150μ. Code A 15/2/2024					
COPIES TO (CC) :-					
1-					
2-					
3-		FOR CONSULTANT :-			
TYPE : SD:Shop Drawing CA:Calculation Sheet SM:Sample MOS:Method of Statement MS: Material Submittal GT:Guarantee					
OT:Other QS: Quantity Survey CT:Certificates TT:Test Results MK:Mock-up TF:Temporary Facilities					
ROUTING					
FROM:	IHPCO&INTERITY JV	Consultant :-	Cosmos -E	Contrator :-	IHPCO&INTERITY JV
TO:	Cosmos - E	Date:		Date:	
Date	15-Feb-2024	Signature:		Signature:	
				* Code to be entered by Contractor	
				** Code to be entered by Consultant	

Received
15/2/2024



دهانت الغد
ALGHAD PAINTS

شركة الغد للكيماويات
ALGHAD CHEMICALS CO.

Abcguard 1610

Product description

This is a two component cured epoxy coating. It is a surface tolerant, high solids product. This product is tin table in a wide range of colors . Specially designed for areas where optimum surface preparation is not possible or desired. Can be used as primer, mid coat, finish coat or as single coat system in atmospheric and immersed environments. Suitable for properly prepared carbon steel, galvanized steel, stainless steel, aluminum, concrete and a range of aged coating surfaces.

Surface preparation

When preparing new surfaces, maintaining already coated surfaces or aged coatings it is necessary to remove all contamination that can interfere with coating adhesion, and prepare a sound substrate for the subsequent product.

Inspect the surface for hydrocarbon and other contamination and if present, remove with an alkaline detergent. Agitate the surface to activate the cleaner and before it dries, wash the treated area using fresh water.

Paint solvents (thinners) shall not be used for general degreasing or preparation of the surface for painting due to the risk of spreading dissolved hydrocarbon contamination. Paint thinners can be used to treat small localized areas of contamination such as marks from marker pens. Use clean, white cotton cloths that are turned and replaced often. Do not bundle used solvent saturated cloths. Place used cloths into water.

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Application

Air temperature	5 - 40 °C ✓
Substrate	5 - 40 °C
temperature	10 - 85 %
Relative Humidity (RH)	

The following restrictions must be observed:

- Only apply the coating when the substrate temperature is at least 3 °C (5 °F) above the dew point
- Do not apply the coating if the substrate is wet or likely to become wet
- Do not apply the coating if the weather is clearly deteriorating or unfavorable for application or curing
- Do not apply the coating in high wind conditions

Product mixing

EPOXY MID COAT A	1 part(s)
Fast Cure B	1 part(s)

Film thickness per coat

Typical recommended specification range

Glossily	semi gloss ✓ 50
Typical Thickness	100-150 microns (4-6 mils) dry equivalent to 167-250 microns (6.7-10 mils) wet ✓

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Drying and Curing time

Substrate temperature	5 °C	10 °C	23 °C	40 °C
Surface (touch) dry	12 h	6 h	3 h	1 h
Walk-on-dry	48 h	24 h	8 h	4 h
Dry to over coat, minimum	48 h	24 h	8 h	4 h
Dried/cured for service	15 d	8 d	4 d	3 d
Dried/cured for immersion	10 d	6 d	2 d	1 d

SHELF LIFE

12 months when stored properly in unopened container in dry conditions at 10-25°C

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abc **Max** **Polo**
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PAINTS



ABC GUARD ZINC PHOSPHATE EPOXY PRIMER

DESCRIPTION	ABC Guard Zinc Phosphate Epoxy Primer is a two pack polyamide cured epoxy resin based primer for protective coating system for steel. It has excellent anti-corrosive properties for atmospheric and immersed exposure conditions. Fully cured coating is resistant to abrasion, water and splash of mild chemicals.
RECOMMENDED USE	Anti-corrosive primer for structural steel, petrochemical plants, tanks and equipments. It can be overcoated with ABC GUARD 1610 coatings for exterior applications.

TECHNICAL DATA

Colors	Grey. <i>18/2/2024</i>
Finish	Smooth / Matt.
Volume Solid (ASTM D2697)	52 ± 2%
Specific Gravity	1.55 ± 0.05 Kg/Lit. (of mix)
Theoretical Spreading Rate	8.6 – 13.0 m ² /Ltr.
Film Thickness	(Dry Film) 40 - 60 microns/Coat. (Wet Film) 75 - 115 microns/Coat.
Flash Point	25°C (when Mixed).
Flexibility	Good
Chemical Resistance	Excellent
Abrasion Resistance	Good
Water Resistance	Good

DRYING TIME

Drying Time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)	
Touch Dry	5 - 6 hrs.
Dry To Recoat / Overcoat	10 hrs. minimum - 7 days (maximum)
Fully Cured	7 days

ADVANTAGES

ABC Guard Zinc Phosphate Epoxy Primer Excellent anti-corrosive properties. The fully cured dry film is resistant to abrasion, splash and various mild chemicals, resistant to water.

SURFACE PREPARATION

Oil and grease should be removed by solvent cleaning. Sand blast to Sa 2.5, then clean & dry. Apply immediately ABC Guard Epoxy Red Oxide Primer after the steel has been blasted.

Repair: Corroded areas should be power tool cleaned to St3 or blast cleaned to Sa2 or better. Existing system should be dry and free from loose paint, salt, grease and other contaminants prior to overcoating.



ABC GUARD ZINC PHOSPHATE EPOXY PRIMER

APPLICATION DATA

Application Methods	Airless	Conventional Spray	Brush
Thinning / Cleaning of Tools	ABC Epoxy Thinner		
Thinner (max Volum)	5 - 10%	10 - 15%	5 - 10%
Conv. Spray Requirements	Atomizing pressure: 40 psi		
Guiding Data for Airless Spray	Pressure: 2200 psi.		
Nozzle Size	0.018" - 0.020"		
Mixing Ratio (By Volume)	Base : Hardener 4 parts : 1 (Mix thoroughly, keep for 10 - 15 minutes)		
Pot Life @ 30°C (100 ml.)	8 hours (reduced at higher temperature) Note: Material may gel at elevated temperature.		

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface.	No. of coats x DFT (microns)	
	ABC Guard Zinc Phosphate Epoxy Primer	: 1 x 30
	ABC Guard Undercoat H.B	: 1 x 125
	ABC Guard TOP COAT	: 1 x 50
	(OR)	
	ABC GUARD 1610	: 1 x 40

MISCELLANEOUS DATA

STORAGE	The product must be stored according to ABC Regulations. The product should be kept in cool and well ventilated place, protected from heat and direct sunlight at temp 5 - 35°C. Containers must be kept tightly closed.
HANDLING	Handle with care, mix well before use.
SHELF LIFE	24 months, in original sealed container, with proper storage conditions.
SAFETY / HEALTH	- Ensure good ventilation during application and drying. - Avoid contact with skin and eyes. While painting it is advisable to wear eye protector. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. To remove splashes from skin; use soap and water or a recognized skin cleaner. - Keep out of reach of children. - Smoking in the area should not be permitted. Local safety regulations should be followed.
TDS ISSUE NO. & DATE	(2) - April 2014

NOTE: We warranty the quality of our product and this data sheet represents test results and practical experience obtained under controlled conditions. We reserve the right to change data without prior notice.

IDMI (IDEAL DEVELOPMENT FOR MANUFACTURING INDUSTRIES PSC)

WORKSHOPS

DIVISION 9 - STEEL STRUCTURE

Item	Description	Quantity	Unit	Rate JD	Amount JD
	تصميم وتصنيع وتقديم وتركيب الهيكل المعدني للهتجر بمساحة 3000 م² حسب المخططات المبدئية المرفقة والمواصفات والكودات والمعايير ذات العلاقة بالأعمال المعدنية والسعر يشمل التصميم الإنشائي للبناء بأجزائه المختلفة المعدنية من اعمدة وجسور وأي تصاميم أخرى ذات علاقة وحسب المعطيات الواردة في المواصفات الخاصة وجميع المواد والمصنوعات اللازمة لإنجاز العمل كاملاً حسب المخططات والمواصفات والكودات والمعايير ذات العلاقة ووفق الأنظمة الخاصة بالشركة وحسب نظام (Pre-Engineering frame) مع مراعاة الأمور التالية : أ. عوارض الرياح اللازمة (Rods+Angles) ب. المدادات اللازمة (Purlins) & (Girts) ج . جدران المبنى والتي تأتي فوق جدران الطوب والسقف يتكون من الصاج المضلع (0.5) ملم (corrugated metal sheet) والدهان حسب اللون والنوعية التي يوافق عليها المهندس المشرف مع مراعاة تجهيز مواقع الفتحات الإنشائية الخاصة بالأبواب والشبابيك للأجزاء الواقعة ضمن الجدران المعدنية د. كافة لوازم التثبيت والتركيب واللحام الضرورية من براغي عالية المقاومة والصواميل والروندلات والمسامير الملولة وغيرها هـ. تقديم الصفائح المعدنية (Anchor) & (Leveling Plates) Bolts (والإحداثيات والمناسيب وجميع ما يلزم لمقاولة الأعمال المدنية والتنسيق معه لتركيبها ولتنبيتها واستلام العمل منه ط. تنظيف المقاطع وجميع الأجزاء والعناصر الحديدية كافة الإنشائية والثانوية من الصدأ والشوائب ودهانها في المصنع وجه أساس ايبوكسي (50) ميكرون ومن ثم دهان ايبوكسي وجهين وبسماكة (50) ميكرون للوجه الواحد وحسب اللون والنوعية التي يوافق عليها المهندس المشرف وذلك لجميع الأعمال الحديدية وحسب تعليمات الشركة الصانعة للدهان والمهندس المشرف. ي. مزاريب معدنية افقية ورأسية باعداد كافية مع مجاري من الصاج بأبعاد كافية لتصريف مياه الامطار على جوانب المبنى حسب المخططات . ك. تصميم و توريد الروافع الراسية مع جهاز تحكم عن بعد من افضل الانواع الاوروبية او شرق اوربا او ما يعادلها بقدرة 10 طن للواحد و بعدد 2 شاملة لكافة الاكسسوارات اللازمة و بحسب المواصفات العالمية وكل ما يلزم لعملها. م يجب الالتزام بالارتفاعات الداخلية والخارجية للمبنى المبينة على المخططات دون زيادة أو نقصان، وجميع ما يلزم لإنجاز العمل حسب المخططات والمواصفات وتعليمات المهندس	3525.00		m2	

150 /
thickness

color grey

Handwritten signature
15/2/2024