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Unit A7, 11/F Block A, Hong Kong Industrial Centre
489-491 Castle Peak Road, Cheung Sha Wan,
Kowloon, Hong Kong
Tel: 852-29593998 Fax: 852-35210438

Paint System Submission

Reference No.:

Customer:

Project: Hong Kong International Airport

Paint System: Paint System IB

	Pages
Paint Specification:	2
Approval Letter:	3
Product Data Sheet:	11
MSDS:	15

CUSTOMER :
SPECIFICATION NO. :
PAINT SYSTEM: Hong Kong International Airport Paint System IB
PROJECT:
DATE :

Attn :

PAINTS	顏色 Colour	理論性		VOC Content g/lit	理論塗布率 T S R M ² /LT	稀釋劑 Thinner Used	稀釋劑比例 Ratio (By spray)	Mini. (at 20°C)			
		乾膜厚度 μm	濕膜厚度 μm					指觸乾 Touch Dry	重塗間隔 Recoat		
<u>Steel Works -</u>											
Primer	6503	PEACOPOXY ZP PRIMER	Red	75	100	235	25.00	066	0-15%	2.5 HOURS	10 HOURS
1st Finish	6537-1	PEACOPOUR RC FINISH SHADE 1 (WHITE, GREY, BLACK)	Ral 9016	50	83	420	12.00	014	0-15%	20 MINS	4 HOURS
2nd Finish	6537-1	PEACOPOUR RC FINISH SHADE 1 (WHITE, GREY, BLACK)	Ral 9016	50	83	420	12.00	014	0-15%	20 MINS	4 HOURS
TO T A L :				<u>175</u>							

REMARKS :

- 1 The system is applied on grit blast cleaned to ISO 8501-1:1988 or BS7079 Part A1 Sa2 1/2 standard
- 2 All of calculation is based on 0% loss factor. The actual paint consumption is subjected to application environment of workmanship.
- 3 Surface preparation - All dirt, grease and contamination must be removed .
- 4 Application conditions - Substrate temperature should be at least 3°C above dew point & relative humidity should be less than 85% during application.

E&OE

P583
T1 Capacity Enhancement & Carpark 4 Expansion



MAIL TYPE
 Transmittal
 REFERENCE NUMBER
 LAL-TRANSMIT-000937

MAIL NUMBER
 AAHK-TRANSMIT-001326


PMR's Reply Re: LAL/P583/M/001191/C Material Submission for Painting System for T1A Roof Truss - Wing Kei Structural Metalworks Co. Ltd.

From Albert Lam - Airport Authority
 To Mr Roger Wong - Leighton Asia
 Cc (80) Mr Michael Yim - AA - AMD (+79 more...)
 Sent Wednesday, 11 April 2018 3:31:06 PM IST (GMT +05:30)
 Status N/A

DETAILS

Submission number LAL/P583/M/001191/C
 Submission Response (AA reply) B1- No-Objection subj. to comments,resub
 Area Terminal 1 Annex (T1A)
 Discipline Others

DOCUMENT ATTACHMENTS (1)

(0 selected)					
File	Document No	Revision	Revision Date	Title	Status
	LAL/P583/M/001191	D	23/03/2018	Material Submission for Painting System for T1A Roof Truss	B1- No-Objection subj. to comments,resub

MESSAGE

PROJECT MANAGER'S REPLY TO CONTRACTOR'S SUBMISSION																							
TITLE OF SUBMISSION: Material Submission for Painting System for T1A Roof Truss - Wing Kei Structural Metalworks Co. Ltd.																							
SUBMISSION NUMBER: LAL/P583/M/001191/C																							
RESPONSE:																							
Submission for Review (Ref. GS 18.3)	A -Notice of No-Objections																						
	B -Notice of No-Objection subject to comments,(please resubmit)	B1																					
	C -Notice of Objection, please resubmit																						
Submission for Permission or Consent (Ref GS 18.4)	D -Notification of Permission or Consent																						
	E -Notification of Permission or Consent subject to compliance with conditions; please confirm acceptance of conditions																						
	F -Permission or Consent withheld																						
Submission for information	R -Submission acknowledged																						
COMMENTS:																							
I have no objections in principle for the proposed painting system. Please note the comments below:																							
<ol style="list-style-type: none"> 1.) ISO certification and quality assurance documents to be provided; 2.) Project specific draft 15 year warranty to proposed paint system should be provided; 3.) Paint system repair specification to be provided; 4.) Paint system application method statement to be provided; 5.) Paint system repair method statement to be provided; and 6.) Submit compliance statement for specific clause of GMWS with Contractor's stamp. 																							
END																							
AA DISTRIBUTION: File Ref:	From: PM's Representative	Contractor's Stamp																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Name</th> <th style="width: 25%;">Action</th> <th style="width: 50%;">Info</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Name	Action	Info																			Name: Albert Lam	
Name	Action	Info																					
	Signature:																						
	Date: 11 April 2018																						

From: R Wong
Sent: 27/03/2018 8:30:53 AM HKT (GMT +08:00)
To: Albert Lam
Cc: Michael Yim, Alex Y M Chan, Ling Chan, Terence Chan, Wendy Chiu, Eric Chu, Chris Chung, Winson Chung, Tim Fu, F P Kong, Terry Kwan, Boris Lai, Thomas Lai, Jeffrey Lam, Ken Lam, Josie Lau, Simon Lau, Edward M Y Law, C O Lee, Johnson Lee, Adam L W Li, P L LO, Johnny S L Ng, Patrick Ng, Raul NG, Franky Shum, M C SO, Rex So, K L Tang, Joe W W Tsang, Marco Tsang, Ruby Tsang, Kyle H F Tse, Kenny TSUI, Chris Wong, C T WU, Sam Wun, Alex Yeung, Kenneth Yeung, Christine Cabico, Chris YO Chan, Stephen Y.L. Chan, Kam Tong Cheng, Eric Chiu, Edith Chow, Jason Chung, Rutchell Cobol, Man Wai Fan, Peter Gillespie, John Harrison, Eric Kwok, Inna Lau, Henry Lee, Andy Leung, Joe Leung, Joey Leung, Kelly Leung, Eagle Liu, Jenny Lo, Alan Mai, Anthony Miller, Melita Tsang, Toni Wong, Danny Chin, Jason Fung, Gary Hong, Manson Kwok, Peggy Leung, Gordon Ngai, Chris Qu, Myra Tam, Lemuel Tsang, Wendy Wei, Alex Wu, Jimmy Wu, Catherine Yiu, Andrea LEUNG, Vincent TANG, Daniel To, Eason

Yang

Mail Number: LAL-TRANSMIT-001343**Subject:** LAL/P583/M/001191/C Material Submission for Painting System for T1A Roof Truss - Wing Kei Structural Metalworks Co. Ltd.

Submission number:	LAL/P583/M/001191/C
Submission Response (AA reply):	- To be completed by Airport Authority -
Area:	Terminal 1 Annex (T1A)
Discipline:	Others

CONTRACTOR'S SUBMISSION				
TITLE OF SUBMISSION : Material Submission for Painting System for T1A Roof Truss - Wing Kei Structural Metalworks Co. Ltd.				
SUBMISSION NUMBER : LAL/P583/M/001191/C				
SPECIFICATION REFERENCE : N/A				
DRAWING REFERENCE : N/A				
DESCRIPTION OF CONTENTS : Please find the revised report for Material Submission for Painting System for T1A Roof Truss, which is proposed by Wing Kei Structural Metalworks Co. Ltd. for your review and approval.				
Remarks :		AA Distribution File Ref.: 15.00/CFR		
		Name	Action	Comments
From: Leighton Contractors (Asia) Limited Name: Roger Wong Signature: Date: 26 Mar 2018		Contractor's Name Leighton Contractors (Asia) Limited		

From: A Lam**Sent:** 16/03/2018 1:17:18 PM IST (GMT +05:30)**To:** Roger Wong

Cc: Michael Yim, Alex Y M Chan, Ling Chan, Terence Chan, Wendy Chiu, Eric Chu, Chris Chung, Winson Chung, Tim Fu, F P Kong, Terry Kwan, Boris Lai, Thomas Lai, Jeffrey Lam, Ken Lam, Josie Lau, Simon Lau, Edward M Y Law, C O Lee, Johnson Lee, Adam L W Li, P L LO, Johnny S L Ng, Patrick Ng, Raul NG, Franky Shum, M C SO, Rex So, K L Tang, Joe W W Tsang, Marco Tsang, Ruby Tsang, Kyle H F Tse, Kenny TSUI, Chris Wong, C T WU, Sam Wun, Alex Yeung, Kenneth Yeung, Christine Cabico, Chris YO Chan, Stephen Y.L. Chan, Kam Tong Cheng, Eric Chiu, Edith Chow, Jason Chung, Rutchell Cobol, Man Wai Fan, Peter Gillespie, John

Harrison, Inna Lau, Henry Lee, Andy Leung, Joe Leung, Joey Leung, Kelly Leung, Jenny Lo, Alan Mai, Anthony Miller, Melita Tsang, Toni Wong, Danny Chin, Jason Fung, Gary Hong, Manson Kwok, Peggy Leung, Gordon Ngai, Chris Qu, Myra Tam, Lemuel Tsang, Wendy Wei, Alex Wu, Jimmy Wu, Catherine Yiu, Andrea LEUNG, Vincent TANG, Daniel To, Eason Yang

Mail Number: AAHK-TRANSMIT-001158

Subject: PMR's Reply Re: LAL/P583/M/001191/B Material Submission for Painting & FRP System for T1 Roof Truss - Wing Kei Structural Metalworks Co. Ltd.

Submission number:	LAL/P583/M/001191/B
Submission Response (AA reply):	C -Notice of Objection, please resubmit
Area:	Terminal 1 Annex (T1A)
Discipline:	Others

PROJECT MANAGER'S REPLY TO CONTRACTOR'S SUBMISSION																							
TITLE OF SUBMISSION: Material Submission for Painting & FRP System for T1 Roof Truss - Wing Kei Structural Metalworks Co. Ltd.																							
SUBMISSION NUMBER: LAL/P583/M/001191/B																							
RESPONSE:																							
Submission for Review (Ref. GS 18.3)	A -Notice of No-Objections																						
	B -Notice of No-Objection subject to comments,(please resubmit)																						
	C -Notice of Objection, please resubmit	C																					
Submission for Permission or Consent (Ref GS 18.4)	D -Notification of Permission or Consent																						
	E -Notification of Permission or Consent subject to compliance with conditions; please confirm acceptance of conditions																						
	F -Permission or Consent withheld																						
Submission for information	R -Submission acknowledged																						
COMMENTS:																							
PHOENIX 170-120 is not on the list of building materials in Building Department Central Data Bank END																							
AA DISTRIBUTION: File Ref:	From: PM's Representative	Contractor's Stamp																					
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 33%;">Name</th><th style="width: 33%;">Action</th><th style="width: 33%;">Info</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	Name		Action	Info																			Name: Albert Lam
Name	Action		Info																				
	Signature:																						
	Date: 16 March 2018																						

From: R Wong

Sent: 14/03/2018 8:02:06 AM HKT (GMT +08:00)

To: Albert Lam

Cc: Michael Yim, Alex Y M Chan, Ling Chan, Terence Chan, Wendy Chiu, Eric Chu, Chris Chung, Winson Chung, Tim Fu, F P Kong, Terry Kwan, Boris Lai, Thomas Lai, Jeffrey Lam, Ken Lam, Josie Lau, Simon Lau, Edward M Y Law, C O Lee, Johnson Lee, Adam L W Li, P L LO, Johnny S L Ng, Patrick Ng, Raul NG, Franky Shum, M C SO, Rex So, K L Tang, Joe W W Tsang, Marco Tsang, Ruby Tsang, Kyle H F Tse, Kenny TSUI, Chris Wong, C T WU, Sam Wun, Alex Yeung, Kenneth Yeung, Christine Cabico, Chris YO Chan, Stephen Y.L. Chan, Kam Tong Cheng, Eric Chiu, Edith Chow, Jason Chung, Rutchell Cobol, Man Wai Fan, Peter Gillespie, John

Harrison, Inna Lau, Henry Lee, Andy Leung, Joe Leung, Joey Leung, Kelly Leung, Jenny Lo, Alan Mai, Anthony Miller, Melita Tsang, Toni Wong, Danny Chin, Jason Fung, Gary Hong, Manson Kwok, Peggy Leung, Gordon Ngai, Chris Qu, Myra Tam, Lemuel Tsang, Wendy Wei, Alex Wu, Jimmy Wu, Catherine Yiu, Andrea LEUNG, Vincent TANG, Daniel To, Eason Yang

Mail Number: LAL-TRANSMIT-001246

Subject: LAL/P583/M/001191/B Material Submission for Painting & FRP System for T1 Roof Truss - Wing Kei Structural Metalworks Co. Ltd.

Submission number:	LAL/P583/M/001191/B
Submission Response (AA reply):	- To be completed by Airport Authority -
Area:	Terminal 1 Annex (T1A)
Discipline:	Others

CONTRACTOR'S SUBMISSION				
TITLE OF SUBMISSION : Material Submission for Painting & FRP System for T1 Roof Truss - Wing Kei Structural Metalworks Co. Ltd.				
SUBMISSION NUMBER : LAL/P583/M/001191/B				
SPECIFICATION REFERENCE : N/A				
DRAWING REFERENCE : N/A				
DESCRIPTION OF CONTENTS : Please find the revised Material Submission for Painting & FRP System for T1 Roof Truss - Wing Kei Structural Metalworks Co. Ltd. (Revision C) for your review and approval.				
Remarks :		AA Distribution File Ref.: 15.00/CFR		
		Name	Action	Comments
				Info
From: Leighton Contractors (Asia) Limited Name: Roger Wong Signature: Date: 13-Mar-2018		Contractor's Name Leighton Contractors (Asia) Limited		

From: A Lam

Sent: 08/03/2018 8:23:57 AM IST (GMT +05:30)

To: Roger Wong

Cc: Mei Yee Chow, Samson Wong, Ling Chan, Terence Chan, Eric Chu, Chris Chung, Winson Chung, Tim Fu, Terry Kwan, Boris Lai, Ken Lam, C O Lee, P L LO, Johnny S L Ng, Patrick Ng, Joe W W Tsang, Kyle H F Tse, Kenny TSUI, Chris Wong, C T WU, Sam Wun, Alex Yeung, Stephen Y.L. Chan, Kam Tong Cheng, Eric Chiu, Benny Chow, Peter Gillespie, Andy Leung, Joey Leung, Kelly Leung, Jenny Lo, Anthony Miller, Billy Po, Melita Tsang, Danny Chin, Jason Fung, Gary Hong, Manson Kwok, Peggy Leung, Gordon

Ngai, Chris Qu, Myra Tam, Lemuel Tsang, Wendy Wei, Alex Wu, Jimmy Wu, Catherine Yiu, Andrea LEUNG, Louis Ma, Vincent TANG, Daniel To, Titus Zhou

Mail Number: AAHK-TRANSMIT-001113

Subject: PMR's Reply: LAL/P583/M/001191 Material Submission for Painting

Submission number:	LAL/P583/M/001191
Submission Response (AA reply):	C -Notice of Objection, please resubmit
Area:	Project Wide
Discipline:	ABWF - Others

PROJECT MANAGER'S REPLY TO CONTRACTOR'S SUBMISSION

TITLE OF SUBMISSION: Material Submission for Painting

SUBMISSION NUMBER: LAL/P583/M/001191

RESPONSE:

Submission for Review (Ref. GS 18.3)

- A -Notice of No-Objections
- B -Notice of No-Objection subject to comments,(please resubmit)
- C -Notice of Objection, please resubmit

C

Submission for Permission or Consent (Ref GS 18.4)

- D -Notification of Permission or Consent
- E -Notification of Permission or Consent subject to compliance with conditions; please confirm acceptance of conditions
- F -Permission or Consent withheld

Submission for information

- R -Submission acknowledged

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COMMENTS:

- 1) Please be reminded to provide detailed description on what type of paint the submission is referring to, e.g. exterior paint, interior paint, paint for metal works, etc. and state the relevant material/finish code, location of use (e.g for external use / for protected staircases) and particular specifications for easy reference.
- 2) The certificate should be renewed for its validity during OP application (e.g. ISO 9001_14001 certificate)
- 3) Color samples should be submitted for review and approval
- 4) Job reference shall be submitted for reference
- 5) The contractor shall provide written confirmation from paint manufacturers that the final paint finish system is compatible with the specified protective system as stated in PS A06 Section 4.1.2
- 6) Please submit fire test report showing the compliance on BSEN13501-1 2007
- 7) Please submit documents to confirm lead free and Low VOC paint per PTS
- 8) Please submit written confirmation from paint manufacturers that the final paint finish system is compatible with protective system
- 9) Please submit compliance statement with GMWS showing the material complied with specific clauses (with Contractor Stamp)

END

AA DISTRIBUTION: File Ref:			From: PM's Representative Name: Albert Lam Signature: Date: 8 March 2018	Contractor's Stamp
Name	Action	Info		

From: R Wong

Sent: 31/01/2018 5:44:27 PM HKT (GMT +08:00)

To: Albert Lam

Cc: Mei Yee Chow, Samson Wong, Ling Chan, Terence Chan, Eric Chu, Chris Chung, Winson Chung, Tim Fu, Terry Kwan, Boris Lai, Ken Lam, C O Lee, Johnny S L Ng, Patrick Ng, Kyle H F Tse, Kenny TSUI, Chris Wong, C T WU, Sam Wun, Alex Yeung, Stephen Y.L. Chan, Kam Tong Cheng, Eric Chiu, Benny Chow, Peter Gillespie, Andy Leung, Joey Leung, Kelly Leung, Jenny Lo, Anthony Miller, Billy Po, Melita Tsang, Danny Chin, Jason Fung, Gary Hong, Manson Kwok, Peggy Leung, Gordon Ngai, Chris Qu, Myra Tam, Lemuel Tsang, Wendy Wei, Alex Wu, Jimmy Wu, Catherine Yiu, Andrea LEUNG, Louis Ma, Vincent TANG, Daniel To, Titus Zhou

Mail Number: LAL-TRANSMIT-000937

Subject: LAL/P583/M/001191 Material Submission for Painting

Submission number:	LAL/P583/M/001191
Submission Response (AA reply):	- To be completed by Airport Authority -
Area:	Project Wide
Discipline:	ABWF - Others

CONTRACTOR'S SUBMISSION				
TITLE OF SUBMISSION : Material Submission for Painting				
SUBMISSION NUMBER : LAL/P583/M/001191				
SPECIFICATION REFERENCE : GMWS VOL.1 SECTION 22				
DRAWING REFERENCE : N/A				
DESCRIPTION OF CONTENTS : Please see the enclosed material submission for painting (for T1A & CP4E) for your review and approval.				
Remarks :		AA Distribution File Ref.: 15.00/CFR		
	Name	Action	Comments	Info

From: Leighton Contractors Asia Limited Name: Roger Wong Signature: Date: 30 Jan 2018	Contractor's Name Leighton Contractors Asia Limited		

This mail was prepared by A Lam

This mail was prepared by A Lam

PEACOPOXY ZP PRIMER

Product Code: 6503

Date: July 2015 (Page 1 of 2)

PRODUCT DESCRIPTION

- Two component high build polyamide cured recoatable Zinc Phosphate epoxy primer
- General purpose epoxy primer or build coat in protective coating systems for steel and concrete structures in atmospheric exposure
- Free from lead and chromate containing pigments
- Can be recoated with two component and conventional paints even after long weathering periods
- Resistant to water and splash of mild chemicals
- Good adhesion on most aged, sound alkyd, chlorinated rubber and epoxy coatings
- Good flexibility, easy application

PHYSICAL PROPERTIES

Colours and gloss	Redbrown
Mass density	approx. 1.5g/cm ³
Solids content (by volume)	approx. 75%
VOC	235 g/litre
Recommended dry film thickness	75-150 μm
Theoretical spreading rate	10 m ² /l for 75μm 7.5 m ² /l for 100μm 5 m ² /l for 150μm
Touch dry (25⁰C)	2.5 hours (75μm)
Overcoating interval	min. 10 hours max. 3-6 months
Fully cured	3 days
Shelf life (cool and dry place)	at least 12 months
Flash point	base 26 ⁰ C, hardener 24.5 ⁰ C

APPLICATION CONDITIONS AND TEMPERATURE

- Steel, blast cleaned to ISO-sa2.5
- Previous coat; dry and free from any contamination
- During application and curing a substrate temperature down to 0⁰C is acceptable provided the substrate is free from water or ice
- Substrate temperature should be at least 3⁰C above dew point

APPLICATION INSTRUCTION

Mixing ratio

base to hardener 7.8 : 1 *by weight*

base to hardener 9:2 *by volume*

- The temperature of the mixture of base and hardener should be above 15⁰C, otherwise extra solvent may be required to obtain application viscosity
- Too much solvent results in lower sag resistance and slower cure
- Thinner should be added after mixing the components
- Pot life at 20⁰C - 6 hours

	AIR SPRAY	AIRLESS SPRAY
Recommended thinner	Thinner 066 (flash point 26 ⁰ C)	Thinner 066 (flash point 26 ⁰ C)
Volume of thinner	<10%	<5%
Nozzle orifice	1.5-3 mm	0.48 mm
Nozzle pressure	0.3-0.4 MPa (approx. 3-4 AT; 43-57 P.S.I.)	15MPa (approx. 150 AT; 2100 P.S.I.)

The information in this data sheet is the best of our knowledge correct at the date of printing, but are subject to change without prior notice. User must contact Chung Shun Chemical (HK) Co Ltd to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Chung Shun Chemical quality control. We assume no responsibility for coverage, performance or injuries resulting from the use. Liability, if any is limited to replacement of products.

CSC 中信化工

www.cschk.com
Tel : (852) 2959 3998
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Email: cschk@cschk.com

PEACOPOXY ZP PRIMER

Product Code: 6503

Date: July 2015 (Page 2 of 2)

BRUSH AND ROLLER

Recommended thinner Thinner 066 (flash point 26⁰C)

Volume of thinner <5%

CLEANING SOLVENT

Thinner 068 (flash point 30⁰C)

POT LIFE(AT APPLICATION VISCOSITY)

INDUCTION

10 ⁰ C	12	hours	20 mins.
20 ⁰ C	6	hours	-
30 ⁰ C	4	hours	-
40 ⁰ C	3	hours	-

OVERCOATING TABLE

For two pack epoxy or polyurethane product

substrate temperature (°C)	5	10	15	20	30	40
minimum interval (hours)	36	20	12	10	8	6
maximum interval : not direct exposed to sunshine (months)	6	6	6	6	4	3
maximum interval : direct exposed to sunshine (months)	3	3	3	3	2	2

CURING TABLE

substrate temperature	dry to handle	full cure
0 ⁰ C	50 hours	9 days
5 ⁰ C	40 hours	7 days
10 ⁰ C	32 hours	5 days
15 ⁰ C	28 hours	4 days
20 ⁰ C	24 hours	3 days
30 ⁰ C	20 hours	2 days
40 ⁰ C	15 hours	1 days



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The information in this data sheet is the best of our knowledge correct at the date of printing, but are subject to change without prior notice. User must contact Chung Shun Chemical (HK) Co Ltd to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Chung Shun Chemical quality control. We assume no responsibility for coverage, performance or injuries resulting from the use. Liability, if any is limited to replacement of products.

PEACOPOUR RC FINISH

Product Code: 6537

Date: May 2014 (Page 1 of 2)

PRODUCT INTRODUCTION

- Two component recoatable Polyurethane acrylic HB finish
- Used as finish coat with excellent colour and gloss retention
- Non chalking and non-yellowing
- Resistant to splash of mild chemicals
- Air dry or bake dry at low temperature. Cured at temperature down to -5°C

PHYSICAL PROPERTIES

Colours and gloss	colours – gloss, semi-gloss & matt
Mass density	approx. 1.1-1.25g/cm ³
Solids content (by volume)	Colour: approx. 60% Metallic: approx. 50%
VOC	395-420 g/litre
Recommended dry film thickness	Colour: 40-70 μm Metallic: 25-50 μm
Theoretical spreading rate (based on 60% solid content)	15 m ² /l for 40 μm 12 m ² /l for 50 μm 8.6 m ² /l for 70 μm
Touch dry (at 20^oC)	20 mins
Bake dry	20 mins at 80 $^{\circ}\text{C}$
Overcoating interval	3 hours at 30 $^{\circ}\text{C}$ 4 hours at 20 $^{\circ}\text{C}$ 5 hours at 15 $^{\circ}\text{C}$ 6 hours at 10 $^{\circ}\text{C}$
Fully Cured	7 days
Pot Life	2 hours at 25 $^{\circ}\text{C}$
Shelf life(cool and dry place)	at least 12 months
Flash point	base 25 $^{\circ}\text{C}$, hardener 25 $^{\circ}\text{C}$

APPLICATION CONDITIONS AND TEMPERATURE

- Previous coat; dry and free from any contamination and sufficiently roughened if necessary
- Substrate temperature should be at least 3 $^{\circ}\text{C}$ above dew point
- Maximum relative humidity during application and curing is 85%

APPLICATION INSTRUCTION

Mixing ratio

base to hardener 5.2:1 *by volume*

- Too much solvent results in lower sag resistance and slower cure
- Thinner should be added after mixing the components
- For metallic finish, multi-applications by spray will be necessary to achieve the required metallic sheen appearance. Air spray is always recommended.
- For matt finish, spraying method is always recommended. Different gloss appearance will be resulted by different application methods.
- For light colour, 2-3 application will be necessary to hide the underneath coats.
- The coverage will be varied respect to different colours.

PEACOPOUR RC FINISH

Product Code: 6537

Date: May 2014 (Page 2 of 2)

	AIR SPRAY	AIRLESS SPRAY
Recommended thinner	Thinner 014 (flash point 25 °C)	Thinner 014 (flash point 25 °C)
Volume of thinner - for 50 µm	~15%	~10%
Nozzle orifice	1-1.5 mm	0.33 mm
Nozzle pressure	0.3-0.4 MPa (approx. 3-4 AT; 43-57 P.S.I.)	15MPa (approx. 150 AT; 2100 P.S.I.)

BRUSH AND ROLLER

Recommended thinner	Thinner 014
Volume of thinner	<5%

CLEANING SOLVENT

Thinner 068 (flash point 30 °C)



6503, 6504, 6511, 6515 Peacopoly ZP, RC MIO, MP, Zinc Primer
Hardener
MATERIAL SAFETY DATA SHEET

PAGE 1 of 6

SECTION I – PRODUCT : EPOXY HARDENER

Date: 12/09/09

SECTION II – COMPOSITION

CHEMICAL NAME	CAS No.	Weight%
Polyamide Epoxy Adduct	7664-38-2	10-25%
Xylene	1330-20-7	20-25%
Iso-butanol	78-83-1	20-25%
ethylbenzene	100-41-4	2.5-10%
Polyamide resin	68410-23-1	10-25%

SECTION III – HAZARDS IDENTIFICATION

Hazardous components:
Xylene

SECTION IV – FIRST AID MEASURES

Inhalation: Remove to fresh air immediately. Keep patient warm and at rest. If breathing is difficult or has stopped apply artificial respiration and/ or seek medical attention immediately.
If unconscious lay patient in a recovery position

Skin: Contaminated clothing should be removed immediately and laundered. Remove excess immediately with a cloth, clean with a suitable cleaning cream and / or wash with soap water.

Eyes: Rinse with plenty of clean water keep eyelid open for 15 minutes. If irritation persists seek medical attention.

Ingestion: Rinse mouth and give water to drink. Don't induce vomiting. Seek medical attention immediately or transport to hospital.

SECTION V – FIRE – FIGHTING MEASURES

EXTINGUISHING MEDIA:
Dry Chemical, Foam, Carbon Dioxide, Water Fog.

FIRE AND EXPLOSION HAZARDS:
Vapors are heavier than air and will accumulate. Vapors will form explosive concentrations with air. Vapors travel long Distances and will flashback. Use mechanical ventilation when necessary to Keep percent vapor below the "Lower Explosion Level" (LEL). Eliminate all Ignition sources. Keep away from sparks, open flames and heat sources. All Electric equipment and installations should be made and grounded in Accordance with the National Electrical Code. In areas where explosion hazards exist, workers should be required to use nonferrous tools and to wear conductive and non-sparking shoes.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area of unprotected personnel. Use a NIOSH approved self-contained breathing unit and complete body protection. Cool surrounding containers with water in case of fire exposure.



6503, 6504, 6511, 6515 Peacopoly ZP, RC MIO, MP, Zinc Primer
Hardener
MATERIAL SAFETY DATA SHEET

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SECTION VI – ACIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Avoid inhalation of vapours and contact with skin eyes. Provide adequate ventilation. Do not smoke, use naked flames or other sources of ignition. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material. Spillages or uncontrolled discharges into watercourses must be immediately alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Should be prevented from entering drains. Absorb in vermiculite, dry sand or earth and place into container. Collect spillage in containers, seal securely and delivery for disposal according to local regulations.

SECTION VII – HANDLING AND STORAGE

USAGE PRECAUTIONS

Observe workplace exposure limits and minimize the risk of inhalation of vapours and mist. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not eat, drink or smoke when using the product.

USAGE DESCRIPTION

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labeled container.

STORAGE PRECAUTIONS

Store in closed original container at temperatures between 5 and 25C. Keep away from heat, sparks and open flame. Keep containers tightly closed. Keep upright. Store separated from: Oxidizing material. Alkalis Acids.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant Workplace Exposure Limit Values, suitable respiratory protection must be worn.



6503, 6504, 6511, 6515 Peacopoxy ZP, RC MIO, MP, Zinc Primer
Hardener
MATERIAL SAFETY DATA SHEET

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EXPOSURE LIMIT VALUES				
Substance	Workplace Exposure Limits			
	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Xylene	50	221	100	442

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace limit is not exceeded.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with gloves supplier, who can inform about the breakthrough time of the glove material. Barrier cream applied before work may make it easier to clean in skin after exposure, but does not prevent absorption through the skin.

EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

OTHER PROTECTION

Wear appropriate clothing to prevent reasonably probable skin contact.

HYGIENE MEASURES

No specific hygiene procedure noted, but good personal hygiene practices are always advisable especially when working with chemicals.

SECTION IX – PHYSICAL DATA:

Appearance	Yellow	Relative Density	0.9
Colour	Yellow	Vapour Pressure	
Solubility	NO	Flash Point	25C
Boiling Point		Upper explosion limit	8.68%
Vapour Density		Lower explosion limit	1.2%
Viscosity	Not determined		



6503, 6504, 6511, 6515 Peacopoly ZP, RC MIO, MP, Zinc Primer
Hardener
MATERIAL SAFETY DATA SHEET

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SECTION X – STABILITY AND REACTIVITY :

STABILITY

This product is stable under normal storage conditions.

CONDITIONS TO AVOID

Heat, sparks, and open flames.

INCOMPATIBILITY

Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe any fumes or smoke from these operations.

SECTION XI – TOXICOLOGICAL INFORMATION

GENERAL INFORMATION

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

INHALATION

Vapour from this chemical can be hazardous when inhaled. Vapour may irritate respiratory system or lungs.

Ingestion

Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

Skin contact

Act as defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation

Eye contact

May cause temporary eye irritation. Vapour or spray may cause temporary (reversible)eye damage.

HEALTH WARNINGS

Solvent vapours are hazardous and may cause nausea, sickness and headaches. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

SECTION XII – ECOLOGICAL INFORMATION

ECOTOXICITY

There are no data on the ecotoxicity of this product. The product is not expected to be hazardous to the environment. The product contains a substance which may cause long term adverse effects in the environment.

BIOACCUMULATION

The product contains potentially bioaccumulation substances.



6503, 6504, 6511, 6515 Peacopoxy ZP, RC MIO, MP, Zinc Primer
Hardener
MATERIAL SAFETY DATA SHEET

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DEGRADABILITY

The product is not expected to be biodegradable.

SECTION XIII – DISPOSAL CONSIDERATIONS

Do not allow into drain or water courses or dispose of where ground or surface waters may be affected. Waste, including emptied containers, are controlled waste and should be disposed of in accordance with regulations made under local authority regulation. Using information provided in this safety data sheet, advice should be obtained from the relevant environment agency whether the Hazardous Waste Regulation apply.

SECTION IV – TRANSPORT INFORMATION

Transport within user's premises: always transport in closed containers that are upright, labeled and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport.

UN-No.: 1263
Proper shipping name: PAINT RELATED MATERIAL
Class : 3
Packing group: III
Label: 3
Proper shipping name (ADR): PAINT RELATED MATERIAL

SECTION V – REGULATORY INFORMATION

RISK PHRASES

R10 Flammable
R20/21 Harmful by inhalation and in contact with skin.
R37/38 Irritating to respiratory system and skin
R41 Risk of serious damage to eyes
R43 May cause sensitization by skin contact

SAFETY PHRASES

S23 Do not breathe spray
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection
S38 In case of insufficient ventilation, wear suitable respiratory equipment

SECTION VI – OTHER INFORMATION

The information contained herein is, to best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all



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applicable federal, state, and local laws and regulations.



6537 Peacopour RC Hardener
MATERIAL SAFETY DATA SHEET

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SECTION I – PRODUCT : POLYURETHANE HARDENER

Date: 12/09/09

SECTION II – COMPOSITION

CHEMICAL NAME	CAS No.	Weight%
Xylene	1330-20-7	10-20%
ethylbenzene	100-41-4	2.5-10%
2 methoxy-1-methylethyl acetate	108-65-6	10-20%
isocyanic acid, hexamethylene ester,	28182-81-2	50-75%
Polymer		
hexamethylene diisocyanate	822-06-0	0.1-0.2%

SECTION III – HAZARDS IDENTIFICATION

Hazardous components:

isocyanic acid, hexamethylene ester, Polymer

SECTION IV – FIRST AID MEASURES

Inhalation:	Remove to fresh air immediately. Keep patient warm and at rest. If breathing is difficult or has stopped apply artificial respiration and/ or seek medical attention immediately. If unconscious lay patient in a recovery position
Skin:	Contaminated clothing should be removed immediately and laundered. Remove excess immediately with a cloth, clean with a suitable cleaning cream and / or wash with soap water.
Eyes:	Rinse with plenty of clean water keep eyelid open for 15 minutes. If irritation persists seek medical attention.
Ingestion:	Rinse mouth and give water to drink. Don't induce vomiting. Seek medical attention immediately or transport to hospital.

SECTION V – FIRE – FIGHTING MEASURES

EXTINGUISHING MEDIA:

Dry Chemical, Foam, Carbon Dioxide, Water Fog.

FIRE AND EXPLOSION HAZARDS:

Vapors are heavier than air and will accumulate. Vapors will form explosive concentrations with air. Vapors travel long Distances and will flashback. Use mechanical ventilation when necessary to Keep percent vapor below the "Lower Explosion Level" (LEL). Eliminate all Ignition sources. Keep away from sparks, open flames and heat sources. All Electric equipment and installations should be made and grounded in Accordance with the National Electrical Code. In areas where explosion hazards exist, workers should be required to use nonferrous tools and to wear conductive and non-sparking shoes.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area of unprotected personnel. Use a NIOSH approved self-contained breathing unit and complete body protection. Cool surrounding containers with water in case of fire exposure.

SECTION VI – ACIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Avoid inhalation of vapours and contact with skin eyes. Provide adequate ventilation. Do not smoke, use naked flames or other sources of ignition. Ensure suitable personal protection(including respiratory protection) during removal of spillages in a confined area.

ENVIRONMENTAL PERCUATIONS

Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material. Spillages or uncontrolled discharges into watercourses must be immediately alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Should be prevented from entering drains. Absorb in vermiculite, dry sand or earth and place into container. Collect spillage in containers, seal securely and delivery for disposal according to local regulations.

SECTION VII – HANDLING AND STORAGE

USAGE PRECAUTIONS

Observe workplace exposure limits and minimize the risk of inhalation of vapours and mist. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not eat, drink or smoke when using the product.

USAGE DESCRIPTION

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labeled container.

STORAGE PRECAUTIONS

Store in closed original container at temperatures between 5 and 25C. Keep away from heat, sparks and open flame. Keep containers tightly closed. Keep upright. Store separated from: Oxidizing material. Alkalis Acids.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant Workplace Exposure Limit Values, suitable respiratory protection must be worn.

**6537 Peacopour RC Hardener
MATERIAL SAFETY DATA SHEET**

EXPOSURE LIMIT VALUES				
Substance	Workplace Exposure Limits			
	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Xylene	50	221	100	442
Ethylbenzene	100	442	200	884
2-methoxy-1-methylethyl acetate	50	275	100	550

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace limit is not exceeded.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with gloves supplier, who can inform about the breakthrough time of the glove material. Barrier cream applied before work may make it easier to clean in skin after exposure, but does not prevent absorption through the skin.

EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

OTHER PROTECTION

Wear appropriate clothing to prevent reasonably probable skin contact.

HYGIENE MEASURES

No specific hygiene procedure noted, but good personal hygiene practices are always advisable especially when working with chemicals.

SECTION IX – PHYSICAL DATA:

Appearance	Viscous	Relative Density	1.07
Colour		Vapour Pressure	
Solubility	NO	Flash Point	40C
Boiling Point		Upper explosion limit	8.3%
Vapour Density		Lower explosion limit	1.1%
Viscosity	Not determined		

SECTION X – STABILITY AND REACTIVITY :

STABILITY

This product is stable under normal storage conditions.

CONDITIONS TO AVOID

Heat, sparks, and open flames.

INCOMPATIBILITY

Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe any fumes or smoke from these operations.

SECTION XI – TOXICOLOGICAL INFORMATION

GENERAL INFORMATION

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

INHALATION

Vapour from this chemical can be hazardous when inhaled. Vapour may irritate respiratory system or lungs.

Ingestion

Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

Skin contact

Act as defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation

Eye contact

May cause temporary eye irritation. Vapour or spray may cause temporary (reversible)eye damage.

HEALTH WARNINGS

Solvent vapours are hazardous and may cause nausea, sickness and headaches. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

SECTION XII – ECOLOGICAL INFORMATION

ECOTOXICITY

There are no data on the ecotoxicity of this product. The product is not expected to be hazardous to the environment. The product contains a substance which may cause long term adverse effects in the environment.

BIOACCUMULATION

The product contains potentially bioaccumulation substances.

DEGRADABILITY



6537 Peacopour RC Hardener
MATERIAL SAFETY DATA SHEET

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The product is not expected to be biodegradable.

SECTION XIII – DISPOSAL CONSIDERATIONS

Do not allow into drain or water courses or dispose of where ground or surface waters may be affected. Waste, including emptied containers, are controlled waste and should be disposed of in accordance with regulations made under local authority regulation. Using information provided in this safety data sheet, advice should be obtained from the relevant environment agency whether the Hazardous Waste Regulation apply.

SECTION IV – TRANSPORT INFORMATION

Transport within user's premises: always transport in closed containers that are upright, labeled and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport.

UN-No.:	1263
Proper shipping name:	PAINT RELATED MATERIAL
Class :	3
Packing group:	III
Label:	3
Proper shipping name (ADR):	PAINT RELATED MATERIAL

SECTION V – REGULATORY INFORMATION

RISK PHRASES

R10	Flammable
R20/21	Harmful by inhalation and in contact with skin.
R43	May cause sensitization by skin contact

SAFETY PHRASES

S23	Do not breathe spray
S36/37	Wear suitable protective clothing, gloves and eye/face protection
S38	In case of insufficient ventilation, wear suitable respiratory equipment

SECTION VI – OTHER INFORMATION

The information contained herein is, to best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.



6537 Peacopour RC Finish base
MATERIAL SAFETY DATA SHEET

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SECTION I – PRODUCT : POLYURETHANE BASE

Date: 12/09/09

SECTION II – COMPOSITION

CHEMICAL NAME	CAS No.	Weight%
Xylene	1330-20-7	10-20%
ethylbenzene	100-41-4	2.5-10%
2 methoxy-1-methylethyl acetate	108-65-6	10-20%
Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	41556-26-7	1-2.5%

SECTION III – HAZARDS IDENTIFICATION

Hazardous components:

Xylene

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate may produce allergy

SECTION IV – FIRST AID MEASURES

- Inhalation: Remove to fresh air immediately. Keep patient warm and at rest. If breathing is difficult or has stopped apply artificial respiration and/ or seek medical attention immediately.
If unconscious lay patient in a recovery position
- Skin: Contaminated clothing should be removed immediately and laundered. Remove excess immediately with a cloth, clean with a suitable cleaning cream and / or wash with soap water.
- Eyes: Rinse with plenty of clean water keep eyelid open for 15 minutes. If irritation persists seek medical attention.
- Ingestion: Rinse mouth and give water to drink. Don't induce vomiting. Seek medical attention immediately or transport to hospital.

SECTION V – FIRE – FIGHTING MEASURES

EXTINGUISHING MEDIA:

Dry Chemical, Foam, Carbon Dioxide, Water Fog.

FIRE AND EXPLOSION HAZARDS:

Vapors are heavier than air and will accumulate. Vapors will form explosive concentrations with air. Vapors travel long Distances and will flashback. Use mechanical ventilation when necessary to Keep percent vapor below the "Lower Explosion Level" (LEL). Eliminate all Ignition sources. Keep away from sparks, open flames and heat sources. All Electric equipment and installations should be made and grounded in Accordance with the National Electrical Code. In areas where explosion hazards exist, workers should be required to use nonferrous tools and to wear conductive and non-sparking shoes.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area of unprotected personnel. Use a NIOSH approved self-contained breathing unit and complete body protection. Cool surrounding containers with water in case of fire exposure.

SECTION VI – ACIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Avoid inhalation of vapours and contact with skin eyes. Provide adequate ventilation. Do not smoke, use naked flames or other sources of ignition. Ensure suitable personal protection(including respiratory protection) during removal of spillages in a confined area.

ENVIRONMENTAL PERCUATIONS

Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material. Spillages or uncontrolled discharges into watercourses must be immediately alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Should be prevented from entering drains. Absorb in vermiculite, dry sand or earth and place into container. Collect spillage in containers, seal securely and delivery for disposal according to local regulations.

SECTION VII – HANDLING AND STORAGE

USAGE PRECAUTIONS

Observe workplace exposure limits and minimize the risk of inhalation of vapours and mist. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not eat, drink or smoke when using the product.

USAGE DESCRIPTION

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labeled container.

STORAGE PRECAUTIONS

Store in closed original container at temperatures between 5 and 25C. Keep away from heat, sparks and open flame. Keep containers tightly closed. Keep upright. Store separated from: Oxidizing material. Alkalis Acids.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant Workplace Exposure Limit Values, suitable respiratory protection must be worn.

6537 Peacopour RC Finish base
MATERIAL SAFETY DATA SHEET

EXPOSURE LIMIT VALUES				
Substance	Workplace Exposure Limits			
	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Xylene	50	221	100	442
Ethylbenzene	100	442	200	884
2-methoxy-1-methylethyl acetate	50	275	100	550

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace limit is not exceeded.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with gloves supplier, who can inform about the breakthrough time of the glove material. Barrier cream applied before work may make it easier to clean in skin after exposure, but does not prevent absorption through the skin.

EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

OTHER PROTECTION

Wear appropriate clothing to prevent reasonably probable skin contact.

HYGIENE MEASURES

No specific hygiene procedure noted, but good personal hygiene practices are always advisable especially when working with chemicals.

SECTION IX – PHYSICAL DATA:

Appearance	Viscous	Relative Density	1.17
Colour	Various	Vapour Pressure	
Solubility	NO	Flash Point	30C
Boiling Point		Upper explosion limit	7.2%
Vapour Density		Lower explosion limit	0.9%
Viscosity	Not determined		

SECTION X – STABILITY AND REACTIVITY :

STABILITY

This product is stable under normal storage conditions.

6537 Peacopour RC Finish base
MATERIAL SAFETY DATA SHEET

CONDITIONS TO AVOID

Heat, sparks, and open flames.

INCOMPATIBILITY

Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe any fumes or smoke from these operations.

SECTION XI – TOXICOLOGICAL INFORMATION

GENERAL INFORMATION

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

INHALATION

Vapour from this chemical can be hazardous when inhaled. Vapour may irritate respiratory system or lungs.

Ingestion

Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

Skin contact

Act as defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation

Eye contact

May cause temporary eye irritation. Vapour or spray may cause temporary (reversible)eye damage.

HEALTH WARNINGS

Solvent vapours are hazardous and may cause nausea, sickness and headaches. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

SECTION XII – ECOLOGICAL INFORMATION

ECOTOXICITY

There are no data on the ecotoxicity of this product. The product is not expected to be hazardous to the environment. The product contains a substance which may cause long term adverse effects in the environment.

BIOACCUMULATION

The product contains potentially bioaccumulation substances.

DEGRADABILITY

The product is not expected to be biodegradable.



6537 Peacopour RC Finish base
MATERIAL SAFETY DATA SHEET

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SECTION XIII – DISPOSAL CONSIDERATIONS

Do not allow into drain or water courses or dispose of where ground or surface waters may be affected. Waste, including emptied containers, are controlled waste and should be disposed of in accordance with regulations made under local authority regulation. Using information provided in this safety data sheet, advice should be obtained from the relevant environment agency whether the Hazardous Waste Regulation apply.

SECTION IV – TRANSPORT INFORMATION

Transport within user's premises: always transport in closed containers that are upright, labeled and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport.

UN-No.:	1263
Proper shipping name:	PAINT RELATED MATERIAL
Class :	3
Packing group:	III
Label:	3
Proper shipping name (ADR):	PAINT RELATED MATERIAL

SECTION V – REGULATORY INFORMATION

RISK PHRASES

R10	Flammable
R20/21	Harmful by inhalation and in contact with skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

SAFETY PHRASES

S23	Do not breathe spray
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection
S38	In case of insufficient ventilation, wear suitable respiratory equipment
S61	Avoid release to the environment.

SECTION VI – OTHER INFORMATION

The information contained herein is, to best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.



6503 Peacopoxy ZP Primer base
MATERIAL SAFETY DATA SHEET

PAGE 1 of 5

SECTION I – PRODUCT : EPOXY BASE

Date: 12/09/09

SECTION II – COMPOSITION

CHEMICAL NAME	CAS No.	Weight%
Epoxy Resin	25068-38-6	10-24%
Xylene	1330-20-7	10-15%
Iso-butanol	78-83-1	1-2.5%
ethylbenzene	100-41-4	2.5-10%
Polyamide resin	68410-23-1	10-25%
1 methoxy-2-propanol	107-98-2	1-2.5%
Zinc phosphate pigment	7779-90-0	2.5-10%

SECTION III – HAZARDS IDENTIFICATION

Hazardous components:
Epoxy resin

SECTION IV – FIRST AID MEASURES

Inhalation: Remove to fresh air immediately. Keep patient warm and at rest. If breathing is difficult or has stopped apply artificial respiration and/ or seek medical attention immediately.
If unconscious lay patient in a recovery position

Skin: Contaminated clothing should be removed immediately and laundered. Remove excess immediately with a cloth, clean with a suitable cleaning cream and / or wash with soap water.

Eyes: Rinse with plenty of clean water keep eyelid open for 15 minutes. If irritation persists seek medical attention.

Ingestion: Rinse mouth and give water to drink. Don't induce vomiting. Seek medical attention immediately or transport to hospital.

SECTION V – FIRE – FIGHTING MEASURES

EXTINGUISHING MEDIA:
Dry Chemical, Foam, Carbon Dioxide, Water Fog.

FIRE AND EXPLOSION HAZARDS:

Vapors are heavier than air and will accumulate. Vapors will form explosive concentrations with air. Vapors travel long Distances and will flashback. Use mechanical ventilation when necessary to Keep percent vapor below the "Lower Explosion Level" (LEL). Eliminate all Ignition sources. Keep away from sparks, open flames and heat sources. All Electric equipment and installations should be made and grounded in Accordance with the National Electrical Code. In areas where explosion hazards exist, workers should be required to use nonferrous tools and to wear conductive and non-sparking shoes.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area of unprotected personnel. Use a NIOSH approved self-contained breathing unit and complete body protection. Cool surrounding containers with water in case of fire exposure.

SECTION VI – ACIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Avoid inhalation of vapours and contact with skin eyes. Provide adequate ventilation. Do not smoke, use naked flames or other sources of ignition. Ensure suitable personal protection(including respiratory protection) during removal of spillages in a confined area.

ENVIRONMENTAL PERCUATIONS

Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material. Spillages or uncontrolled discharges into watercourses must be immediately alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Should be prevented from entering drains. Absorb in vermiculite, dry sand or earth and place into container. Collect spillage in containers, seal securely and delivery for disposal according to local regulations.

SECTION VII – HANDLING AND STORAGE

USAGE PRECAUTIONS

Observe workplace exposure limits and minimize the risk of inhalation of vapours and mist. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not eat, drink or smoke when using the product.

USAGE DESCRIPTION

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labeled container.

STORAGE PRECAUTIONS

Store in closed original container at temperatures between 5 and 25C. Keep away from heat, sparks and open flame. Keep containers tightly closed. Keep upright. Store separated from: Oxidizing material. Alkalis Acids.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant Workplace Exposure Limit Values, suitable respiratory protection must be worn.

**6503 Peacopoxy ZP Primer base
MATERIAL SAFETY DATA SHEET**

EXPOSURE LIMIT VALUES				
Substance	Workplace Exposure Limits			
	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Xylene	50	221	100	442
Ethylbenzene	100	442	200	884
1-methoxy-2-propanol	100	442	150	568

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace limit is not exceeded.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with gloves supplier, who can inform about the breakthrough time of the glove material. Barrier cream applied before work may make it easier to clean in skin after exposure, but does not prevent absorption through the skin.

EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

OTHER PROTECTION

Wear appropriate clothing to prevent reasonably probable skin contact.

HYGIENE MEASURES

No specific hygiene procedure noted, but good personal hygiene practices are always advisable especially when working with chemicals.

SECTION IX – PHYSICAL DATA:

Appearance	Liquid	Relative Density	1.5
Colour	Redbrown	Vapour Pressure	
Solubility	NO	Flash Point	26C
Boiling Point		Upper explosion limit	8%
Vapour Density		Lower explosion limit	1.1%
Viscosity	Not determined		

SECTION X – STABILITY AND REACTIVITY :

STABILITY

This product is stable under normal storage conditions.

CONDITIONS TO AVOID

Heat, sparks, and open flames.

INCOMPATIBILITY

Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe any fumes or smoke from these operations.

SECTION XI – TOXICOLOGICAL INFORMATION

GENERAL INFORMATION

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

INHALATION

Vapour from this chemical can be hazardous when inhaled. Vapour may irritate respiratory system or lungs.

Ingestion

Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

Skin contact

Act as defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation

Eye contact

May cause temporary eye irritation. Vapour or spray may cause temporary (reversible)eye damage.

HEALTH WARNINGS

Solvent vapours are hazardous and may cause nausea, sickness and headaches. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

SECTION XII – ECOLOGICAL INFORMATION

ECOTOXICITY

There are no data on the ecotoxicity of this product. The product is not expected to be hazardous to the environment. The product contains a substance which may cause long term adverse effects in the environment.

BIOACCUMULATION

The product contains potentially bioaccumulation substances.

DEGRADABILITY

The product is not expected to be biodegradable.

SECTION XIII – DISPOSAL CONSIDERATIONS

Do not allow into drain or water courses or dispose of where ground or surface waters may be affected. Waste, including emptied containers, are controlled waste and should be disposed of in accordance with regulations made under local authority regulation. Using information provided in this safety data sheet, advice should be obtained from the relevant environment agency whether the Hazardous Waste Regulation apply.

SECTION IV – TRANSPORT INFORMATION

Transport within user's premises: always transport in closed containers that are upright, labeled and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport.

UN-No.:	1263
Proper shipping name:	PAINT RELATED MATERIAL
Class :	3
Packing group:	III
Label:	3
Proper shipping name (ADR):	PAINT RELATED MATERIAL

SECTION V – REGULATORY INFORMATION**RISK PHRASES**

R10	Flammable
R20/21	Harmful by inhalation and in contact with skin.
R37/38	Irritating to respiratory system and skin
R43	May cause sensitization by skin contact
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

SAFETY PHRASES

S23	Do not breathe spray
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection
S38	In case of insufficient ventilation, wear suitable respiratory equipment
S61	Avoid release to the environment.

SECTION VI – OTHER INFORMATION

The information contained herein is, to best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the use to comply with all applicable federal, state, and local laws and regulations.