Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong. Tel : +852 2450 8233 Fax : +852 2450 6138 E-mail : matlab@fugro.com Website : www.fugro.com



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TEST REPORT ON MIXING OF EPOXY

Information Supplied by Client

Client: Infrascan (HK) Ltd.

Client Address: Unit 7, 12/F., Paramount Building, 12 Ka Yip Street, Chai Wan, H.K.

Project: Material Testing

Client's Ref.: PA110

Main Contract No.: --

Works Order No.:

Sample Description:

Serial No .:

Type

Huntsman Araldite Epoxy

Source

--

Batch No.

--

Laboratory Information

Lab Batch ID.:

CN160622/1

Date Received:

17-Nov-2016

Date of Mixing:

25-Nov-2016

Sample Location:

Concrete Lab. of MateriaLab Ltd.

Ambient Temperature:

22 °C

Relative Humidity:

55 %

Time of Start of Mixing:

16:00

Mixing Time:

2 min.

Time of Completion of Mixing:

: 16:02

Test Method:

Ref. to HKHA/MTS (2008/2010) Specification Part D Clause 2.1.20

Ref. to HKHA/MTS (2014/2016) Specification Part D Clause 2.1.20

Test Results

Mixing Materials Description	Quantity	
Araldite AY133	2 kg	
Hardener HY133LP	0.8 kg	
		

Remarks:

Checked by

Approved Signatory:

Chan Chi San (Engineer - Concrete)

Date: 05 DEC 2016

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TEST REPORT ON COMPRESSIVE STRENGTH TEST OF EPOXY CUBES

Information Supplied by Client

Client:

Infrascan (HK) Ltd.

Client Address:

Unit 7, 12/F., Paramount Building, 12 Ka Yip Street, Chai Wan, H.K.

Project:

Material Testing

Contract No.:

PA110

Client ref.:

Serial No.:

Works Instruction No.:

Type

: Huntsman Araldite Epoxy

Source

Batch No.

Specimen No.

Laboratory Information

Laboratory batch ID.:

Sample Description -

CN160622/1

Date Received of Raw Materials:

17/11/2016

Date Cast:

25/11/2016

Date Tested:

02/12/2016

Age at Test:

7 days

Method of Compaction:

By Hand

Sample Location:

Concrete Laboratory of MateriaLab

Nominal Size of Specimens:

50 x 50 x 50 mm

Ambient Conditions -

Preparation of the Specimens:

22 °C, 55 % RH

Testing of the Specimens:

20 °C, 60 % RH

Curing Conditions:

27±2°C, 55±5%RH

Test Method:

BS 6319: Part 2: 1983

Test Results

Laboratory Specimen I.D.	Client Specimen I.D.	Loading area (mm²)	Mass (g)	Max. Load (kN)	Compressive Strength (N/mm²)
CN160622/1A		2500	142.8	271.5	109
CN160622/1B		2500	142.8	271.4	109
CN160622/1C		2500	140.1	268.4	107
		Arithmetic Mean Compressive Strength			108

Remark:

Date: 05 DEC 2016 Approved Signatory:

Date: 05 DEC 2016

Chan Chi San (Engineer - Concrete)

** End of Report **

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TEST REPORT ON BOND STRENGTH OF EPOXY

Information Supplied by Client

Client : Infrascan (HK) Ltd.

Client Address: Unit 7, 12/F., Paramount Building, 12 Ka Yip Street, Chai Wan, H.K.

Project : Material Testing

Client's Ref.: PA110

Sample Description - Type

: Huntsman Araldite Epoxy

Source

Batch No.

Works Instruction No.: --

Laboratory Information

Lab Batch ID

: CN160622/1

Date Received: 17-Nov-2016

Date Cast

: 25-Nov-2016

Date Tested

: 02-Dec-2016

Age at Test

: 7 days

Location of Sampling : Concrete Laboratory of MateriaLab

Ambient Condition During Preparation : 22 °C, 55 %RH

Curing Regime : 27 °C, 55 %RH

Test Method

: Ref. to HKHA/MTS (2008/2010) Specification Part D Clause 2.1.14

Test Results

Mass o		Dimensions of Central		Maximum	Bond	Failure Mode		
Lab Specimen	Specimen	Portio	on (mm)	Load	Strength	Area % of	Failure Oc	curred at
ID	(g)	Width	Thickness	(N)	(N/mm²)	Tested Mortar	Interface	Parent Mortar
CN160622/2A	109.9	25.5	25.4	2610	4.0	0	70	30
CN160622/2B	113.8	26.5	26.0	2715	3.9	0	60	40
CN160622/2C	107.9	26.7	26.0	2563	3.7	0	80	20
	531			Mean	3.9			-9

Remark:

Approved Signatory:

Date: 05 DEC 2016

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TEST REPORT ON TENSILE STRENGTH OF EPOXY

Information Supplied by Client

Client : Infrascan (HK) Ltd.

Client Address: Unit 7, 12/F., Paramount Building, 12 Ka Yip Street, Chai Wan, H.K.

Project: Material Testing

Client's Ref.: PA110

Sample Description :- Type

: Huntsman Araldite Epoxy

Source

Batch No.

Works Instruction no.:

Laboratory Information

Lab Batch ID

: CN160622/1

Date Received : 17-Nov-2016

Date Cast

: 25-Nov-2016

Date Tested

: 02-Dec-2016

Age at Test

: 7 days

Location of Sampling : Concrete Laboratory of MateriaLab

Ambient Condition During Preparation : 22 °C, 55 % RH

Ambient Temperature During Testing

: 20 °C, 60 % RH

Curing Regime : 27°C, 55% RH

Test Method

: BS 6319 : Part 7 : 1985

Test Result

Laboratory	Mass of	Dimensions of		Maximum	Tensile
Specimen ID	Specimen	Portion (mm) (WxT)		Load	Strength
and the control of th	(g)	W	Т	(N)	(N/mm^2)
CN160622/3A	70.6	25.4	25.4	16158	25.1
CN160622/3B	73.6	25.9	25.8	18458	27.7
CN160622/3C	72.0	26.0	25.1	19000	29.2
30-0				Mean	27.3

Remark:

Approved Signatory:

Date: 05 DEC 2016

Chan Chi San (Engineer - Concrete)

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong. Tel : +852 2450 8233 Fax : +852 2450 6138 E-mail : matlab@fugro.com Website : www.fugro.com



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Client's Ref.: PA110

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TEST REPORT ON FLEXURAL STRENGTH OF EPOXY

Client : Infrascan (HK) Ltd.

Client Address: Unit 7, 12/F., Paramount Building, 12 Ka Yip Street, Chai Wan, H.K.

Project : Material Testing

Location: --W/I No.: --

Sample Description:

Type

: Huntsman Araldite Epoxy

Source

Batch No.

Batch ID:

CN160622/1

Nominal Dimension of Specimen:

25 x 25 x 100 mm

Method of Compaction:

: By hand

Curing Regime :

27 ± 2 °C, 55% RH

Location of Sampling:

Concrete Laboratory of MateriaLab

Date Received: 17-Nov-2016
Date Cast: 25-Nov-2016
Date Tested: 02-Dec-2016

Age at Test:

7 days

Test Method: BS 6319: Part 3: 1983

Test Result

Specimen	Dimensions of	Mass of	Maximum	Flexural
Identification	Failure Area	Specimen	Load	Strength
	(mm)	(g)	(N)	(N/mm²)
CN160622/4A	25.0 x 25.2	73.0	14654	103.8
CN160622/4B	25.0 x 25.2	71.9	13130	93.0
CN160622/4C	24.8 x 25.2	71.2	13105	93.6
			Mean	96.8

Remark: --

Checked by

Approved Signatory:

Date:__

05 DEC 2016

Chan Chi San (Engineer - Concrete)