

TEST REPORT: 7191102006-CHM14-PGK

Date: 26 NOV 2014

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Client's Ref:

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SUBJECT

Fluorescent UV Accelerated Weathering Test on Screws

CLIENT

EJOT Asia Pacific Pte Ltd
32 Old Toh Tuck Road
#04-05
I.Biz Centre
Singapore 597658

Attn: Mr Noel Yu

SAMPLE SUBMISSION DATE

22 Aug 2014

DATE TEST CONDUCTED

28 Aug to 20 Nov 2014

DESCRIPTION OF SAMPLE

One sample of self drilling screws described as follows, was submitted by the above client:

Brand : "EJOT"
Model : JT2-6-5.5 X 20
Quantity : 5



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METHOD OF TEST

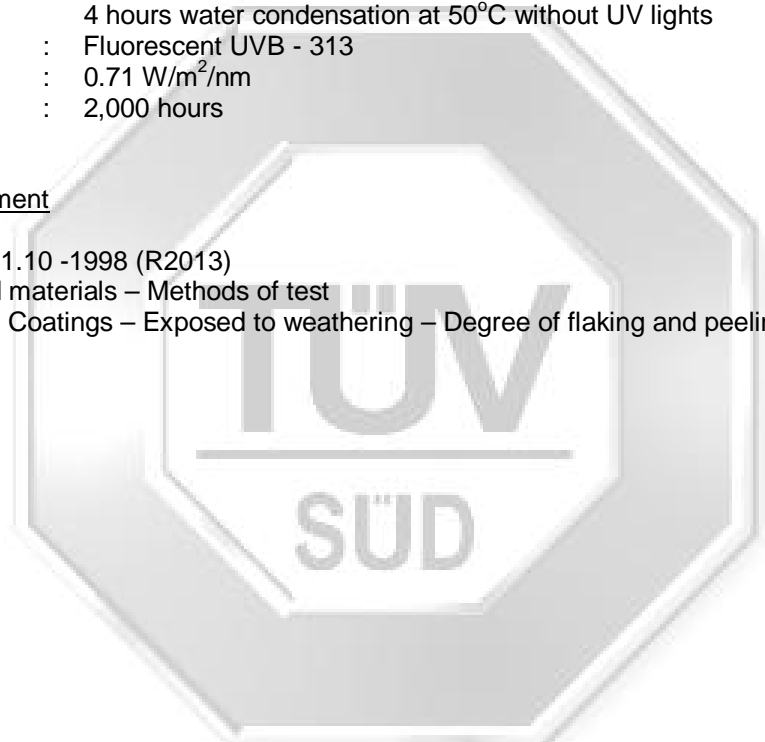
1. AS 3566.2 - 2002
"Self-drilling screws for the building and construction industries –
Part 2 : Corrosion resistance requirements"

2. ASTM G154 - 12a
"Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic
Materials"

Operating Cycle : 4 hours UV lights at 60°C followed by
4 hours water condensation at 50°C without UV lights
Light Source : Fluorescent UVB - 313
Irradiance : 0.71 W/m²/nm
Test duration : 2,000 hours

Method of Assessment

- AS/NZS 1580.481.1.10 -1998 (R2013)
"Paints and related materials – Methods of test
Method 481.1.10 : Coatings – Exposed to weathering – Degree of flaking and peeling"



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RESULTS

Test Conducted	Inspection at	Visual Assessment	AS 3566.2 - 2002 Class 3 Requirements
		"EJOT" JT2-6-5.5 X 20 Self Drilling Screws	
Cyclic Fluorescent UV Lights and Water Condensation	500 hours	No checking, cracking, flaking and peeling on all five tested screw heads	<u>Screw heads :</u> No checking, cracking, flaking or peeling with a rating greater than 0
	1,000 hours	No checking, cracking, flaking and peeling on all five tested screw heads	
	1,500 hours	No checking, cracking, flaking and peeling on all five tested screw heads	
	2,000 hours	No checking, cracking, flaking and peeling on all five tested screw heads	

Remarks : Test was conducted on five screws mounted in non-metallic fixture.
Tested screws were found to have complied with AS 3566.2 Class 3 requirements on resistance to cyclic fluorescent UV lights and water condensation.

MS PECK GEOK KHOON
TECHNICAL EXECUTIVE

MRS WONG-LIN TAI HOE
PRODUCT MANAGER
COATINGS
CHEMICAL & MATERIALS

“EJOT” JT2-6-5.5 X 20 Self Drilling Screws



Figure 1. Before Test



Figure 2. After 500 hours of Cyclic Fluorescent UV Lights and Water Condensation Test



Figure 3. After 1,000 hours of Cyclic Fluorescent UV Lights and Water Condensation Test

"EJOT" JT2-6-5.5 X 20 Self Drilling Screws



Figure 4. After 1,500 hours of Cyclic Fluorescent UV Lights and Water Condensation Test



Figure 5. After 2,000 hours of Cyclic Fluorescent UV Lights and Water Condensation Test

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July 2011

