

Material & Engineering Laboratory-Taichung

# TEST REPORT

REPORT NO. TV-15-00939XA-1

PAGE NO.

1 OF 3

DATE

May 27, 2015

Applicant

ENTERPRISE CO., L HUNG GENG ENTERPRISE CO., LTD

Address

1F, NO. 143, Sec 2, Jhong-Hua Rd., Jhong-Zheng District, Taipei city 10068, Taiwan

Product Description

**HG Natural Effect Coating** 

Product Type

The sikkens coating for timber constructions

Manufacturer

AKZO Nobel

Supplier

HUNG GENG ENTERPRISE CO., LTD.

Product Submitted By

HUNG GENG ENTERPRISE CO., LTD.

Tested Date

Received Date

Mar. 27, 2015 Mar. 27, 2015~May 27, 2015

Remark

The information mentioned in the above section is provided by Client

(Exclude Date of Sample Received and Date of Testing)

### Test Result:

Test Item · · · · · · · · · · · · · · · · · · ·	Test Method	Result
Humidity Resistance(50°C,95%RH,24h)	CNS 11607(1995)	No Effect
Acid Resistance(5%H <sub>2</sub> SO <sub>4</sub> ,24h at Room Temp.)	CNS10757(1995)	No Effect
Alkali Resistance (5%Na <sub>2</sub> CO <sub>3</sub> , 24h at Room Temp.)	CNS10757(1995)	No Effect
Number of Rotation of Abrasion Resistance	CNS 11367(1985)	55 Rotation

Anti-Flaming Grade 2	Anti-Flaming Grade 3
NG GENC	
≦5	≦5
≦60	≦60
≦10	≦15
G GENG	
	GEVE

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.

Signed for and on behalf of SGS TAIWAN Ltd.

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Material & Engineering Laboratory-Taichung

# TEST REPORT

TV-15-00939XA-1 REPORT NO. 2 OF 3 PAGE NO. May 27, 2015 DATE

Test Result:

Test Item: Fungi Resistance Test

Test Method: ASTM G21-96 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.

NG ENTERPRISE CO., L'

Incubation time: After incubation at 28~30°C for 28 days, antifungal activity was evaluated by visually NG ENTERPRISE rating the degree of fungal growth on the sample(s).

The degree of fungal growth on the sample: © HUNG GE

Rating	Observed Growth	
0	No Growth	
1	Traces of Growth (less than 10% coverage)	
2	Light Growth (10 to 30% coverage)	
3	Moderate Growth (30 to 60% coverage)	
4	Heavy Growth (60% to complete coverage)	

Organisms used:

Aspergillus niger	ATCC 9642		
Penicillium pinophilium	ATCC 11797		
Chaetomium globosum	ATCC 6205		
Aureobasidium pullulans	ATCC 15233		
Gliocladium virens	ATCC 9645		

#### Test Result

The degree of fungal growth on the sample	Rating
No Growth	0
-NITERPIN	ENTERP
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Material & Engineering Laboratory-Taichung

# TEST REPORT NG ENTERPRISE CO., LTD.

TV-15-00939XA-1 REPORT NO.

PAGE NO.

3 OF 3

DATE

May 27, 2015

## Test Result

lest Result:				
Test Item	Unit	Test Method	Result	MDL
Formaldehyde	mg/kg	With reference to CNS 9538(1999), Analysis was performed by spectrophotometer	n.d.	5
Migration of certain elements	RPRI	With reference to EN 71 PART 3: 1994 (A1:2000) (EN 71& BS 5665 are identical) Analysis was performed by ICP-AES	I EN	TERP
Soluble Antimony (Sb)	mg/kg		n.d.	5
Soluble Arsenic (As)	mg/kg		n.d.	2.5
Soluble Barium (Ba)	mg/kg		n.d.	10
Soluble Cadmium (Cd)	mg/kg		n.d.	5
Soluble Chromium (Cr)	mg/kg		n.d.	5
Soluble Lead (Pb)	mg/kg		n.d.	5
Soluble Mercury (Hg)	mg/kg		n.d.	5
Soluble Selenium (Se)	mg/kg		n.d.	5
Note: 1. Formaldehyde and Migr	ation of ce	rtain elements Test is subcontracted to		
SGS Chemical Laborato		rtain elements Test is subcontracted to bed below		
2. Experimental conditions	are descri	bed below		
2.1 mg/kg - nnm ' (	$1_{xx}+0/_{-}-1$	000nnm		

- Experimental conditions are described below
  - 2.1. mg/kg = ppm ; 0.1 wt% = 1000 ppm
  - 2.2, n.d. = Not Detected
  - 2.3 MDL = Method Detection Limit
- 3. The Fungi Resistance Test is subcontracted to SGS FOOD Laboratory-Kaohsiung.
- 5. This Test Report cancels and supersedes the Test Report No. TV-15-00939X, TV-15-00939XA,... Revised date: Jun.18.2015.
- 6. This Test Report is an additional original report of TV-15-00939X-1. Issued date: Jun.18.2015.

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