



PENETRATION TEST



Material & Engineering Laboratory-Kaohsiung

Test Report

Report No. : KB-17-01621A-1
C-17-03851
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Date of Report : Apr. 21, 2017

Applicant Radical Technology Products Asia Co., Ltd.
Supplier Radical Technology Products Asia Co., Ltd.
Sample Name BH599-10 Cement-based waterproofing agent
Sample Submitted By Radical Technology Products Asia Co., Ltd.(Elain Ou)
Date of Sample Received Feb. 20, 2017
Date of Testing Feb. 20, 2017~Apr. 21, 2017
Remark The information mentioned in the above section is provided by Client (Exclude Date of Sample Received and Date of Testing)

Test Conditions :

1. Diffusion test ratio :

Concrete of Mixing Rate (weight)	Water	Cement (Type I)	Coarse aggregate (3/4")	Coarse aggregate (3/8")	Coarse sand	Fine sand	Admixture	Unit Weight
kg/m ³	174	307	495	493	625	266	3.1	2363

2. Mortars of Mixing Rate(By Weight) (Compressive Strength) :

Test group	Cement(Type I)	Granded Standard Sand	Water	Admixtures
Control Mix	200	400	120	-----
Test Mix	200	400	116	4

Note : Waterproofing agent is liquid, adding the proportion of cement weight percentage 2%.

Test Results :

Test Items	Test Method	Test Results	
Compressive Strength (kgf/cm ²)	Refer. ASTM C109/C109M-13	Control group	446.0
		Test group	550.8
Compressive Strength Ratio(%)	----	Test group / Control group × 100%	
		123.5	
Chloride ion content (%)	Refer. ASTM D512 C	0.0049	
Diffusion test (mm) note.1	Refer.DIN1048-5(1991)	Control group	Test group
		34.24	No penetration
Water absorption(%) (23°C · 24h) note.3	Refer. ASTM D570-98(2010)	1.15	
Infiltration depth(mm)	Customer provided note.2	25.11	

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

Forghin. Hsu
Signed for and on behalf of
SGS Taiwan Ltd.

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Note :

- Control group : 105 °C oven drying, the machine pressure 0.5MPa pressure for 8 hours.
Test group : 105 °C oven drying, after cooling by the hydraulic surface soaking agent,placed (Temperature 23.0 ± 2 °C Humidity 50.0 ± 4%) after 24 hours of curing,on the machine pressure 0.5MPa pressure for 8 hours.
- The coating is applied to the surface of the cylindrical body and allowed to stand for half an hour to one hour at a temperature of 20 ° C, placed constant temperature and humidity chamber (temperature 23.0 ± 2 °C humidity 50.0 ± 4%) conservation 10 days out, split according to the high degree of measurement depth.
- The experiment was commissioned by Kaohsiung Polymer Laboratory (Report No : KV-17-02141)
- This Test Report is an additional original report of KB-17-01621 C-17-03851. Issued date : Apr.21,2017.
- This Test Report cancels and supersedes the Test Report No. KB-17-01621 C-17-03851, KB-17-01621A C-17-03851. Revised date: May 02,2017.

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