

Test Report of NSR Silcate Resin

Report No. :RB-1500123

Receive Date : 2015.07.28

Report Date : 2015.07.30

Project Name : CL212 ZiQiang Tunnel Construction Project

Client : FORTUNE Construction Co., Ltd.

Client's Address : 10F., No.160, Sec. 6, Minquan E. Rd., Neihu Dist., Taipei
City 114, Taiwan (R.O.C.)

Contractor : FORTUNE Construction Co., Ltd.

Supplier : WECAND Enterprise Co., Ltd.

Sampler : SINOTECH Engineering Consultants, Ltd. :Li, Yun-Cheng
FORTUNE Construction Co., Ltd. :Deng, Kai-Zhong

Transporter : remark 5

Witness : N/A

- Remarks : 1.This report is responsible for the test samples only.
2.The content of this report shall not be reproduced except in full.
3.This report will be preserved for 3 years.

4.Owner:Eastern Region Engineering Office, Railway
Reconstruction Bureau,Taiwan

Construction Supervisor:SINOTECH Engineering Consultants, Ltd.
Sampling date:2015.07.23

(The informations of this section are provided by client)

- 5.The testing samples were originally transported to Tung-Tai
Engineering Material Testing Laboratory(Report No. 15-02837) by
Deng, Kai-Zhong(FORTUNE Construction Co., Ltd.) on 2015.07.24
11:35, and our laboratory was requested to conduct the test, and
received this samples by post.

For and on behalf of
WECAND ENTERPRISE CO., LTD.


Authorized Signature(s)

Laboratory Supervisor: 

Approval Signatory : 

NOVA

CECI Nova
Technology Co., Ltd.

YangMei Laboratory, Testing Department 1

No.525, Xinming St., Yangmei Dist., Taoyuan City 326, Taiwan (R.O.C.)
Tel : (886-3)4727262 Fax : (886-3)4727245

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Materials[Specification] : Silcate Resin (Technical code for design and construction of Tunnel, Sections 02432)

Specimen Number	Product Grade	Product Marking
1	—	—

Test Item	Test Results	Requirement for Specification	Test Method
Specific Gravity			
Agent A	1.47	1.47 ± 0.03	remark 1
Agent B	1.20	1.20 ± 0.03	
Reaction Time(s)	30	30 ~ 180	remark 2
Expansion Ratio(%)	15.2	≥ 6	remark 3

Remarks : 1.The test is made at 20 °C with hydrometer.

2.After uniform mixing by the ratio Agent A : Agent B = 1 : 1
(proportion by weight) designated by the applicant, record time
from the beginning of foaming to the complete of foaming.3.After uniform mixing by the ratio Agent A : Agent B = 1 : 1
(proportion by weight) designated by the applicant, record the
height of foaming and caculation foaming expansion ratio.For and on behalf of
WECAND ENTERPRISE CO., LTD.

Authorized Signature(s)

Laboratory Supervisor:

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Approval Signatory: