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Your Ref :
 Our Ref : 3110/84/CM/MC/jc
 Date : 6th February 1985

K.I. Andrews (Northern) Limited
 87 Rocky Lane
 Liverpool
 L6 4BB

For the attention of: Mr M. Joseph

Report No. 3110/84/1

REPORT ON TESTS OF SAMPLES OF PROTECRETE

INTRODUCTION

Verbal instructions were received from your Mr Joseph covered by your telex dated 21st November 1984 for tests to be performed to assess the penetration of samples of "Protecrete" through concrete.

DETAILS OF SAMPLES

Our Ref	Description
PR3960	5 plastic bottles, approximately 250ml, each containing a clear liquid stated to be "Protecrete".
PR3960A	1 small plastic bottle containing "Protecrete" mixed with a pink dye.

Continued ...



REGISTERED IN ENGLAND No 679256
 SCOTTISH OFFICE, 9 NORTH AVE., CLYDEBANK BUSINESS PARK, CLYDEBANK G81
 TELEPHONE 041-941 1425 TELEX 779272 TESLAB G FAX 041-962 2833 (GP 11)

To : K.I. Andrews (Northern) Limited

Date : 6th February 1985

METHOD OF TEST

Four concrete cylinders 100mm diameter x 200mm long were cast from a typical dense concrete of cement content 350 kg/m³ and cured in water for 28 days. Three cylinders were sealed with mastic at the edge on one end to prevent spillage down the side face.

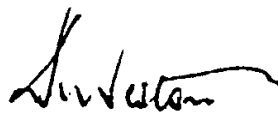
Sample ref. No. PR3960A was applied to the end surface of cylinders Nos. 1 and 2. Florescent dye was dissolved in a small amount of sample No. PR3960 and applied to cylinder No. 3. The remaining cylinder was left untreated.

The cylinders were saturated prior to treatment.

The treated cylinders were left to stand for approximately one hour when all four cylinders were split longitudinally. The exposed surfaces of all four cylinders were examined under ultra violet light and low magnification.

RESULTS

Cylinder No.	Treatment	Visual Examination
1	Pink dye and "Protecrete" PR3960A	Treated surface was orange under ultra violet light. Spots of orange were visible on both halves of the cylinder through full depth of the cylinder.
2	Pink dye and "Protecrete" PR3960A	Treated surface was orange under ultra violet light. Spots of orange were visible on both halves of the cylinder through full depth of the cylinder.
3	"Protecrete" PR3960 mixed with florescent dye.	Treated surface was yellow/green under ultra violet light. Few spots of yellow/green were visible on both halves of the cylinder through full depth of the cylinder.
4	Untreated	No spots of orange or yellow/green were visible on either half of the cylinder.


for HARRY STANGER LIMITED