SANDBERG
CONSULTING ENGINEERS
TESTING INSPECTION
QUALITY MANAGEMENT

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REPORT 25314/F

TRACKCRETE

Instruction: Purchase Order No. 9820 of 14 May 2003.

1. INTRODUCTION

We were asked to provide facilities to demonstrate the mixing of a bagged concrete material known as 'Trackcrete', to make 100mm concrete cube specimens and to test them for compressive strength.

Six 25kg bags of Trackcrete, from batch 24022, were received in our laboratory on 21 May 2003.

2. TEST METHODS AND TEST RESULTS

Mr Phil Richardson of Natural Cement Distribution Limited visited our laboratory on 21 May 2003 and carried out the concrete mixing using a special shaped mixing paddle, with a slow speed drill and a 25 litre plastic tub. Mr Philip Dumelow of Balfour Beatty was in attendance for the mixing and the initial cube testing.

Two mixes were carried out, one at the recommended water content, one with the water content increased by 20%. Cubes were cast from each mix and compacted using a small poker vibrator, provided by Mr Richardson. Three cubes from each mix were tested for compressive strength after 2hrs, this being the crucial time for the proposed usage. Single cubes were tested at later dates.

Mix details and cube strengths are given in Table 1.

Natural Cement Distribution Limited
Unit 12, Redbrook Business Park
Wilthorpe Road
Barnsley
S Yorks S75 1JN

For the attention of Mr P Richardson

For Sandberg LLP

D Hunt
Chief Technician

DH/CMD/fe

11 July 2003

Materials, samples and test specimens are retained for a period of 2 months from the issue of the final report. Your attention is drawn to the enclosed sample retention form and we would be grateful if you could complete the form and return it within one month from the date of the report.

Tests reported on sheets not bearing the UKAS logo in this report/certificate are not included in the UKAS accreditation schedule for this laboratory.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

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AND TESTING ENGINEERS

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Table
1

CONCRETE MIX AND TEST DETAILS

Mix Ref:	1	2
Mix Type:	Standard water content	Water increased by 20%
Water Content:	**2 litres** to 25kg of dry material	**2.4 litres** to 25kg of dry material
Date/Time of Mixing:	21/5/03 / 09.20	21/5/03 / 10.05
Mix Procedure:	Water placed in tub, dry material gradually added whilst mixer is running, mixed 2 minutes after all dry material added	As mix Ref. 1
Observations of Mix:	Very stiff to mix but vibrates well in cube moulds	Easier to mix. Has the appearance of a medium slump concrete
Compressive Strength:	N/mm²	N/mm²
At 2hrs a	18.5	9.5
b	19.0	8.5
c	19.0	9.5
Mean	**19.0**	**9.0**
At 2.5hrs	21.0	9.5
At 24hrs	32.5	18.0
At 7 days	42.0	27.0
At 28 days	No cube	40.0