OPERATING INSTRUCTIONS

Flake Capping Compound to ASTM C617

34-6100

ELE International Chartmoor Road, Chartwell Business Park Leighton Buzzard, Bedfordshire, LU7 4WG England phone: +44 (0) 1525 249200 fax: +44 (0) 1525 249249 email: ele@eleint.co.uk http://www.ele.com ELE International, a division of Hach Lange Ltd.	**Distributor:**	**ELE International** Soiltest Product Division PO Box 389, Loveland, CO 80539 USA phone: +1 (800) 323 1242 fax: +1 (970) 663 9781 email: soiltest@eleusa.com http://www.eleusa.com

Contents

WARNING:

IMPORTANT NOTICE

READ THIS SECTION BEFORE CONTINUING.

THESE INSTRUCTIONS DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THE USE OF FLAKE CAPPING COMPOUND.

IT IS EMPHASISED THAT ADEQUATE TRAINING SHOULD BE GIVEN TO STAFF EMPLOYED IN THE USAGE OF THIS PRODUCT.

COMPLIANCE WITH LOCAL HEALTH AND SAFETY REGULATIONS SHOULD BE OBSERVED AT ALL TIMES.

1 Introduction

The basic raw material used in the manufacture of capping compound is sulphur. When capping compound is melted for use, sulphur dioxide vapour is emitted which, in a humid atmosphere, forms corrosive sulphuric acid. The fusion point for the capping compound is approximately 120°C and the following precautions must be taken.

2 Exterior Site Use

The operator must always stand with his back to the wind when the product is being melted, and must wear protective clothing, heat resistant gloves and safety goggles. Only small quantities should be melted at any time and its use should be avoided on humid days.

3 Interior Laboratory Use

Melting of the capping compound must always be carried out inside a fume cupboard equipped with an extractor. Operators must wear protective clothing, heat resistant gloves and safety goggles.

4 Melting Compound

Care must be taken when melting this material to ensure that it is not overheated. It is advisable to firstly apply a temperature of about 95 - 100°C until the material is seen to go into a molten state, the temperature should then be reduced to about 75 - 80°C. This will bring the material into a workable consistency ready for pouring. It is recommended to stir the material at regular intervals.

Important: Do not allow the temperature to rise above 100°C as this causes foaming and creates large quantities of gas. The material also tends to jellify at temperatures above about 100°C.

Never raise the temperature if the capping compound cannot be poured and shows a frothy condition. Reduce the temperature and keep stirring the material. Only add small quantities at any time, this will help in controlling the temperature.