

TEST APPLICATION FOR PROTECTIVE COATING SYSTEM FOR SWEATING PIPES AT BSP'S GADONG METERING PLANT

DATE	24th March 1997
TIME	10.30 hours Surface Preparation and first coat 14.50 hours Second Coat
VENUE	BSP Gadong Metering Plant

OBJECTIVES

- 1 - To recoat sweating pipes while in operation
- 2 - To provide corrosion protection for a period of five years

PERSONNEL

Mr. Chua Teck Lee of BSP SES/S51 S
Mr. Masri D. Adbulla of BSP SES/3310 S
Mr. Jose Kattikkaran of Haji Adinin & Sons
Mr. Simon Haycox of Alocit International Ltd
Mr. Dave Loo of Alocit Asia

SPECIAL EQUIPMENT

175 CFM Air Compressor
Pneumatic Driven Needle Gun Scraper

SUBSTRATE Coated sweating carbon steel pipe of 16" dia

TEMPERATURE Ambient 32°C
Steel substrate 24.5°C

PROPOSED COATING SYSTEM

Surface Cleaned to Swedish Standard SIS055900 St-3.
Apply two coats of Alocit 28.15 Signal Green at a dry film
thickness of 400 microns.



Pictured above: An overview of Gadong Metering Plant



Left: A closer view of the Sweating Pipes



Right: Scraping away the blistered coating



The picture above shows the algae growth which coated the surface of the pipes.

Blistering was observed all over the sweating pipes, see picture right, covering approximately 20 % .





The surface was first cleaned using a scraper. The old coating came off very easily. A needle gun was used to remove the remaining undercoat and finishing coatings



Above left: The surface is washed using fresh water and sand paper.

Above right: The pipe temperature is only 24.5°C despite an ambient temperature of 32°C.

The two components of the first coat of Alocit 28.15 are mixed in the can.





Pictured above: The application of the first coat of Alocit 28.15 Signal green

Above right, below and right: Sweating in progress during application of Alocit 28.15





Pictured above: The completed first coat application. The wet film thickness was measured at 150 microns. The first coat is tack free at 14.30 hours.

After the application of the second coat of Alocit 28.15 signal green (see above right), its wet film thickness is measured average at 450 microns.

Pictured right: Completion of trial - appearance of Alocit 28.15 signal green after application.

Alocit Systems products are manufactured and distributed by the A&E Group

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