

TEST REPORT



Singapore Institute
of Standards and
Industrial Research

Established as a statutory and testing authority by an Act of Parliament, the SISIR Act No. 48 of 1973)

1 Science Park Drive Singapore 0511
Tel 778 7777 Fax 778 0086
Telebox GVT 325 Telex RS 28499 SISIR

Your Ref:

Date: 1990-03-02

Our Ref: Q-40194-5101-KYP

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Please quote our ref. no. in reply

NOTE: This Report is issued subject to the conditions set out overleaf. The samples mentioned in this report were submitted by the client. SISIR's officers are not involved in the sampling and selection. SISIR therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture, consignment or any other information supplied.

SUBJECT: Testing of Radcon Formula #7 Concrete Sealer
for use in contact with potable water.

TESTED FOR:

DESCRIPTION OF SAMPLE: One sample consisting of 10 numbers of concrete slabs (75mm x 50mm x 25mm each) prepared by Setsco Services Pte Ltd (SSPL Test Report Ref: B 4000/THC) was submitted on 28-12-1989.

The composition of the concrete slab was stated to have the following proportion of materials:

- (I) Cement : 345 kg
- (II) Water : 205 kg
- (III) Sand : 795 kg
- (IV) Aggregate : 1030 kg

The above slabs were coated with Radcon Formula #7 Concrete Sealer by SSPL as specified by you.

METHOD OF TEST: The methods were essentially that recommended by the Singapore Standard 245 'Specification for Glass Reinforced Polyester Sectional Water Tanks', Appendix H.

The following tests were involved:

- (1) Effect on Taste, Odour, Colour and Turbidity
- (2) Toxic Metals
- (3) Cytotoxicity
- (4) Microbiological Growth

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RESULTS:

(1) Taste, Odour, Colour and Turbidity

Soaking tests on the sample produced no difference in the taste, odour, colour and turbidity when compared with the original water.

(2) Toxic Metals

The levels of toxic metals extractable in water are low. The water extract satisfies the WHO Guidelines for Drinking - Water Quality, 1984.

(3) Cytotoxicity

Using monkey kidney cells, it was found that extracts obtained from the sample were free from cytotoxicity and able to support the growth of tissue culture.

(4) Microbiological Growth

It was found that the sample did not support the growth of the Coliform organisms, Pseudomonas aeruginosa, fungi (including yeast) and any bacteria capable of growth at 22°C and 37°C.

Remarks:

The above results show that the sample complies with the requirements of S.S. 245 : 1981, Appendix H. There is no objection from the water quality aspect to the use of this sample in contact with potable water.



KAM-LEONG YIN PHENG (MRS)
TESTING OFFICER



LEONG-QUEK SEOW CHIANG (MRS)
EXECUTIVE SCIENTIFIC OFFICER
FOR MANAGER (FOOD TECHNOLOGY)
SISIR