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Salts Analysis Kit



Operating Instructions

Product Safety Information: Tablets for Salt Analysis

- 1. PRODUCT USE:** The product is intended only for the testing of wallpaper or wall-plaster samples for the presence of certain chlorides or nitrates mainly from the soil.
- 2. CHARACTERISTICS:** The chloride tablets are yellow and dissolve in water to give a solution. They are neutral with oxidising properties.
- 3. HAZARDS:** The tablets are harmful if ingested. Eye and skin contact can cause irritation. In addition, the tablets may burn or support combustion if exposed to flame or intense heat.
- 4. STORAGE:** Keep dry. Keep away from children. Keep away from heat and combustible materials.
- 5. HANDLING:** Use only as instructed. Avoid handling tablets whenever possible. Wash hands after use. Not to be taken.
- 6. FIRST AID PROCEDURES:**
 - Swallowing:** Rinse mouth with water and give water to drink. Seek medical attention.
 - Prolonged contact with skin:** Wash affected skin with water.
 - Eye contact:** Irritation. Wash immediately with plenty of water.
 - Spillage:** Sweep up and wash with plenty of water.
- 7. FIRE:** Water and all extinguishers may be used. Tablets support combustion.

The information contained in this leaflet is given in good faith. As the method of use of the instrument (and its accessories) and the interpretation of the readings are beyond the control of the manufacturers, they cannot accept responsibility for any loss, consequential or otherwise, resulting from its use.

On-Site Chemical Analysis of salts deposited on walls

INTRODUCTION

Certain nitrates and chlorides are deposited by evaporation of soil-water (rising damp) on the surface of walls. A meaningful analysis can therefore be carried out provided a wall has not been disturbed for several years.

HOW TO PROCEED

WARNING: Do not swallow tablets, solutions, or test strips.

Collect samples from **surface** at *upper margin* of the damp area:

Wallpaper: Remove a piece 50mm²

Plaster: Scrape wall surface not deeper than 3mm

1. Place wallpaper piece or level spoonful of plaster (only use spoon supplied) in the container marked 60cc.
2. Fill vial marked 60cc with distilled water up to 60cc mark.
3. Shake mixture continuously for 30-40 seconds and allow to settle for one.
4. Pour off some of the liquid into the vial marked 10cc, up to the 10cc mark.
5. Use the 10cc vial for the nitrate test. Use the remaining 50cc solution (in the 60cc vial) for the chloride test.

Test Method for Nitrate

1. To the 10cc vial add one test strip into the solution for 2-3 seconds.
2. Remove and shake the excess water off.
3. Wait for 60 seconds.
4. Observe colour chart on the Nitrate Strips container vial.

Test Method for Chloride

1. To the 50cc solution (in the 60cc vial) add one Chloride tablet and shake the container until tablet dissolves.
2. Observe colour:
 - Brown: No chlorides present.
 - Yellow: Chlorides present.

INTERPRETATION OF RESULTS

The diagnosis of the origin of salts should not be made on the presence of salt alone, but considering other information available such as the moisture distribution within the building. A high reading of nitrates may signify that evaporation of soil water has occurred for a long time. Soil salts are hygroscopic.