

Topic 2
INTERNAL PLASTERS

Worksheet No.5

Informative water tests

1. Visual examination

Equipment: clean transparent container (cup) or test tube

Procedure: Put the water sample in a container and observe against the light. We evaluate the appearance and occurrence of impurities.

Rating: clear, transparent, translucent - suitable, slightly cloudy, strongly cloudy - unsuitable
without impurities, with impurities

2. Smell test

Devices: container or tube with cap

Procedure: Seal the water sample in a container, leave closed for 5 minutes (intensify the odor). Then we open and smell.

Rating: odorless, faint odor, strong odor (+ description of the type of odor)

3. pH test

Equipment: litmus paper (pH indicator)

Procedure: Soak the paper in a water sample for 30 seconds.

Evaluation: We compare the paper according to the color to the scale and determine the pH of the sample. Water having a pH = 6-9 is suitable.

4. Test for organic matter

Equipment: container with lid

Procedure: Shake the water sample in the container for 30 seconds.

Evaluation: If the foam disappears within 5 seconds, the water is free of organic substances.



5. Presence of sulphates

Equipment: barium chloride BaCl

Procedure: Add barium chloride solution to water and observe for discoloration.

Assessment: If the solution turns white or even forms a white precipitate, the water contains a sulfur compound (sulphates) and is not suitable for construction purposes.