



INDIAN STANDARD 428
SPECIFICATION FOR WASHABLE DISTEMPER

• **Scope:**

- Covers the requirements, methods of sampling, and tests for washable distemper, a **decorative finish for interior building surfaces**.

• **Types:**

- Two types of washable distemper:
 - **Type 1:** Oil emulsion-based.
 - **Type 2:** Plastic (synthetic polymer emulsion-based).

• **Composition:**

- Made from pigments, extenders, preservatives, and a medium (oil emulsion or synthetic polymer).

• **Key Requirements:**

- Homogeneous paste, free from lumps.
- Readily thins with water to form a **smooth mixture**.
- Applies smoothly by brush, providing a uniform finish.
- Resistance to alkali and light fastness ensured.
- Lead content capped at **300 ppm** to minimize health hazards.

• **Eco-Mark Compliance:**

- Products meeting environmental criteria (low volatile organic compounds, non-toxic metal content) can carry the ECO-Mark label.

• **Testing and Performance:**

- Includes tests for drying time, consistency, recoating properties, resistance to alkali, and storage stability under accelerated conditions.

• **Packaging and Marking:**

- Containers must indicate material name, manufacturer details, lead content, batch number, and safety warnings.
- Additional ECO-Mark packaging requirements (e.g., recyclability).

• **Environmental Considerations:**

- Encourages **minimizing lead and VOC content to reduce harmful impacts on human health and the environment**.

For further details please refer to IS 428:2013