

TECHNICAL DATA SHEET (TDS)

FLEX LIQUID

Liquid Polyester Stone Mastic

1. CHARACTERISTICS

FLEX LIQUID is a two-component, liquid polyester-based mastic formulated with unsaturated polyester resin dissolved in styrene and selected mineral fillers. Its fluid consistency is designed for efficient bonding, filling and repair of natural and artificial stones, particularly where easy spreading and filling of larger areas are required.

2. FIELD OF APPLICATION

FLEX LIQUID is mainly intended for the stone processing and fabrication industry for bonding, filling and repairing natural and artificial stones.

3. INSTRUCTIONS FOR USE

- Ensure that the surface is clean, dry, sound and lightly abraded before application.
- Remove dust, grease, loose particles and other contaminants before bonding.
- For colour matching, suitable polyester colour pastes may be added up to a maximum of 5%.
- Add 1–4 g of liquid hardener to 100 g of FLEX LIQUID.
- Mix both components thoroughly until a smooth and homogeneous mixture is obtained.
- Apply the prepared material within its available working time.
- Depending on hardener dosage and application conditions, treated parts can generally be further processed after approximately 20–60 minutes.
- Curing is accelerated by higher temperatures and delayed by lower temperatures.
- Clean tools immediately after use with a suitable cleaner before the material hardens.

4. SPECIAL HINTS

- Wear suitable protective gloves during handling and application.
- Hardener dosage above 4% may reduce adhesion and adversely affect surface drying.
- Hardener dosage below 1%, particularly at temperatures below 5°C, can considerably delay curing.
- Keep bonding layers as thin as practically possible, preferably below 2 mm, as curing may cause approximately 2–8% shrinkage.
- When filling larger holes, cavities, corners or edges, use the minimum practical amount of hardener.

- Bonding exposed frequently to humidity, moisture or frost may have limited long-term durability.
- Slight yellowing may occur during prolonged outdoor exposure.
- Adhesion may be moderate on fresh, alkaline building materials such as fresh concrete, concrete bricks and similar substrates.
- Once fully hardened, FLEX LIQUID cannot normally be removed with conventional solvents. Removal is primarily mechanical or by high-temperature treatment above approximately 200°C.
- When properly handled and processed, the cured material is generally not considered harmful under normal intended use.

5. TECHNICAL INFORMATION

DENSITY

FLEX LIQUID : 1.10–1.15 g/cc

WORKING TIME AT 20°C

1% Hardener	: 12–16 min
2% Hardener	: 10–14 min
3% Hardener	: 5–8 min
4% Hardener	: 3–5 min

Working time values are typical and may vary according to temperature, mixing quantity, hardener dosage and application conditions.

6. MECHANICAL PROPERTIES

Tensile Strength	: 55–65 Mpa
Bending Strength	: 75–85 Mpa

7. SHELF LIFE

Approximately 1 year when stored in the original, tightly closed container under suitable storage conditions and protected from frost.

8. IMPORTANT NOTE

The technical values stated above are typical laboratory values and are provided for guidance. Actual performance may vary depending on substrate condition, temperature, humidity, mixing ratio, application method and workmanship. A preliminary compatibility test is recommended before large-scale application.

Manufactured For & Marketed By:

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