



FLAG STONE FIX
STONE CARE EXPERTS



Technical Data Sheet (TDS)

FS MASTIC SOFT

Polyester adhesive for filling and fixing marbles and other natural stone

DESCRIPTION

FS MASTIC SOFT is a two-component adhesive composed of unsaturated polyester resin dissolved in styrene, with added mineral fillers. It is specifically designed for bonding natural and engineered stones. Its soft consistency makes it particularly suitable for vertical surface applications.

KEY FEATURES

- Good working properties, creamy-soft consistency, especially on vertical surfaces.
- Good working properties (grinding, milling, drilling)
- Good polishing properties
- Very good adhesion even at high temperatures
- Fast hardening
- UV-Stabilized

APPLICATION AREAS

- Indoor/outdoor use
- Natural stones (e.g., marble, granite)
- Artificial stones (e.g., quartz, terrazzo)
- Vertical surfaces
- Large area filling
- Crack and void repair
- Edge and joint bonding

COVERAGE ESTIMATES

STORAGE AND SHELF LIFE

Approximately 12 months when stored in the original packaging, under cool and dry conditions, below 25°C.

APPLICATION INFORMATION

Surface preparation

- Ensure the surface is clean and lightly abraded.
- You may add up to 5% polyester colour paste to achieve the desired tint.
- Mix 1 to 4 grams of soft hardener per 100 grams of the mastic.
- Blend the components thoroughly; the mixture will remain usable for 8 to 15 minutes.
- After 6 to 8 hours, the treated surface can be further worked on or processed.
- Warmer temperatures will speed up curing, while cooler conditions will slow it down.
- Use Epoxy Remover to clean tools after application.

Application

- **Personal Protection:** Always wear chemical-resistant gloves to prevent skin contact.
- **Optimal Hardener Ratio:** Maintain hardener at 1–4% by weight. Exceeding 4% will impair adhesion and compromise surface curing, while using less than 1%—particularly at temperatures below 5°C—will substantially extend cure time.
- **Layer Thickness:** Limit application thickness to $\leq 2\text{mm}$ to offset the 2–8% volumetric shrinkage and manage the exothermic heat generated during cure.
- **Large Voids & Detailing:** For filling deep holes or shaping corners and edges, reduce hardener dosage to control heat buildup and ensure dimensional stability.
- **Exposure Durability:** Bonded joints subjected to frequent moisture or frost will exhibit limited long-term durability.
- **Weathering Effects:** In outdoor settings, cured FS MASTIC SOFT may exhibit slight yellowing over time.
- **Substrate Compatibility:** Achieves only moderate adhesion on freshly laid alkaline substrates (e.g., concrete or concrete block).
- **Removal of Cured Material:** Once fully cured, FS MASTIC SOFT is insoluble in solvents. Removal is possible only by mechanical means or by applying temperatures above 200°C.
- **Health & Safety (Cured State):** When mixed and cured according to instructions, FS MASTIC SOFT poses no significant health hazards under normal handling.

TECHNICAL SPECIFICATIONS

1. Density

FS MASTIC SOFT	1.10 to 1.15 g/cc
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FLAGSTONE FIX
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2. Duration of Usability at 20°C:

1% of hardener	16 to 20 min
2% of Hardener	10 to 12 min
3% of Hardener	6 to 8 min
4% of Hardener	3 to 5 min

CAUTION

- Always wear appropriate protective equipment throughout the application process.
- Excessive use of hardener may compromise adhesion and lead to incomplete surface curing.
- Insufficient hardener can significantly delay the curing process.

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