



FLAG STONE FIX
STONE CARE EXPERTS



Technical Data Sheet (TDS)

FS TRANSPARENT LIQUID

Polyester adhesive for filling and fixing marbles and other natural stone

DESCRIPTION

FS TRANSPARENT LIQUID is a two-component adhesive formulated with unsaturated polyester resin, designed for bonding both natural and engineered stones. Its smooth, liquid consistency makes it ideal for filling extensive surface areas.

KEY FEATURES

- Smooth, creamy-soft consistency for effortless application, even on vertical surfaces
- Outstanding machinability: easily grind, mill, and drill
- Excellent polishing characteristics for a flawless, clear finish
- Strong adhesion is maintained at elevated temperatures
- Rapid curing to reduce wait times
- UV-stabilized for long-term transparency and weather resistance

APPLICATION AREAS

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

APPLICATION INFORMATION

Surface preparation

- Ensure the surface is clean and lightly abraded before application.
- To tint the product, add up to 5% polyester color paste by weight.
- Incorporate 1-4g of liquid hardener per 100g of FS Transparent Liquid base.
- Mix both components thoroughly; the resulting blend has a working time of approximately 10-15 minutes.
- Allow 20-60 minutes (product-dependent) before further processing or demolding.
- Note that higher temperatures accelerate curing, while lower temperatures delay it.
- Clean tools immediately after use with a suitable solvent-based cleaner.

Application

- **Personal Protection:** Wear chemical-resistant gloves to prevent skin contact.

• **Hardener Ratio:** Keep hardener between 1% and 4% by weight. Exceeding 4% weakens adhesion and impairs surface cure; below 1%, especially at temperatures under 5°C, will significantly slow curing.

• **Layer Thickness:** Apply bonding layers no thicker than 2mm to accommodate the 2-8% shrinkage and manage exothermic heat generated during cure.

• **Large Voids & Detailing:** When filling deep holes or shaping corners and edges, use the minimum hardener required to control heat buildup.

• **Exposure Durability:** Bonds subjected to frequent moisture or frost will have limited longevity.

• **Weathering Effects:** Cured material may exhibit slight yellowing over time in outdoor applications.

• **Substrate Compatibility:** Offers only moderate adhesion on freshly laid alkaline substrates (e.g., concrete or concrete block).

• **Removal of Cured Material:** Once fully cured, FS TRANSPARENT LIQUID is insoluble in solvents; removal is possible only mechanically or at temperatures above 200°C.

• **Health & Safety (Cured State):** When mixed and cured correctly, the material poses no significant health hazards under normal handling.

TECHNICAL SPECIFICATIONS

1. Density

FS TRANSPARENT LIQUID	1.10 to 1.15 g/cc
------------------------------	-------------------

2. Duration of Usability at 20°C:

1% of hardener	12 to 16 min
2% of Hardener	10 to 14 min
3% of Hardener	5 to 8 min
4% of Hardener	3 to 5 min

FLAGSTONE FIX
Zyax Chem PVT. LTD.

Third Floor, Kamer Building, 38, Cawasji Patel Street, Fort, Mumbai, Maharashtra, 400001, India.

☎ +91-8779-240-420

✉ info@zyax.in

🌐 www.flagstonefix.com



FLAG STONE FIX
STONE CARE EXPERTS



Technical Data Sheet (TDS)

FS TRANSPARENT LIQUID

Polyester adhesive for filling and fixing marbles and other natural stone

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.

FLAGSTONE FIX
Zyax Chem PVT. LTD.

Third Floor, Kamer Building, 38, Cawasji Patel Street, Fort, Mumbai, Maharashtra, 400001, India.

☎ +91-8779-240-420

✉ info@zyax.in

🌐 www.flagstonefix.com