



FLAG STONE FIX
STONE CARE EXPERTS



Technical Data Sheet (TDS)

FS WATERCLEAR GEL SPECIAL

CHARACTERISTICS

FS WATERCLEAR GEL SPECIAL is a two component products, based on unsaturated polyester resin dissolved in styrene, containing mineral filling agents. The products have following qualities:

- Good working properties creamy-soft consistency, especially on vertical surfaces.
- Good working properties (grinding, milling, drilling)
- Good polishing properties
- Fast hardening
- UV-Stabilized

FIELD OF APPLICATION

FS WATERCLEAR GEL SPECIAL is mainly used in stone processing industries for bonding natural and artificial stones. Due to its liquid-like consistency the product is suited to fill large areas.

INSTRUCTIONS FOR USE

- The surface must be clean and lightly abraded.
- A coloration is possible by adding polyester color pastes up to max. of 5% Dillusion is possible in any ratio by adding poly-liquid transparent. Add 1 to 4 gm of liquid hardener to 100gm of mastic.
- Mix both components properly. The mixture can be worked for about 3 to 10 min.
- After 24 hours the treated parts can be further processed.
- The hardening process is accelerated by heat and delayed by cold.
- Tools can be cleaned with appropriate cleaner.

SPECIAL HINTS

- Use hand gloves to protect hands.
- Hardener portions higher than 4% reduce adhesion and deteriorate surface drying.
- Hardener portions less than 1% and low temp(under 5°C) considerably delay hardening.
- The bonding layers should be as possible(<2 mm) due to shrinkage (approx. 2-8%) caused by high reactivity of the **FS WATERCLEAR GEL SPECIAL** and development of heat during the hardening process.
- When filling bigger holes modeling corners and edges use as little hardener as possible.
- Limited durability of bonding which are frequently exposed to humidity and frost.

- **FS WATERCLEAR GEL SPECIAL** has a slight tendency to yellowing in outdoor application.
- Moderated adhesive on fresh, alkaline building materials (e.g. concrete bricks, concrete)
- Once hardened. Material can no longer be removed by solvents. Removal is only possible mechanically or by high temperature (>200°C)
- Being worked properly, the **FS WATERCLEAR GEL SPECIAL** is generally not injurious to health.

TECHNICAL INFORMATION

1. Density

FS WATERCLEAR GEL SPECIAL	1.10 to 1.15 g/cc
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1. (A) Working Time at 20°C

FS WATERCLEAR GEL SPECIAL	
1% of hardener	12 to 14 min.
2% of hardener	8 to 10 min.
3% of hardener	7 to 9 min.
4% of hardener	6 to 8 min.

MECHANICAL PROPERTIES

- Tensile Strength: 55-65 N/mm²
- Bensing Strength: 75-85 N/mm²

Shelf Life 1 Year Approx.

(If stored in tightly closed container and free from frost)

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