



HYDAFFECT

ABOUT HYDAFFECT

HYDAFFECT is a specially formulated additive designed to enhance the visual appeal of epoxy tile grouts by imparting a sparkling, glittering effect. Ideal for interior and exterior wall and floor installations, it delivers a unique decorative finish while maintaining compatibility with resin-based (epoxy) grouts. It is recommended for both wet and dry applications in residential, commercial, and decorative projects where aesthetics are a priority.

HYDAFFECT should be mixed with compatible epoxy grout on site and is available in Gold, Silver, and Copper variants—allowing for over 100 unique shimmering combinations. It dissolves easily into the grout matrix, ensuring smooth and even distribution of sparkle.

This product is ideal for adding visual brilliance to tile joints on a wide range of surfaces including ceramic, vitrified, porcelain, mosaic, natural stone, and engineered stone. It is suitable for domestic and commercial areas, including bathrooms, kitchens, and feature walls.

RECOMMENDED SURFACES

- Ceramic, Glazed & Porcelain Tiles
- Large Format & Engineered Stones
- Glass Mosaic Tiles
- Vitrified & Fully Vitrified Tiles
- Natural Stones & Composites

APPLICATION AREAS

- Interior & Exterior Walls and Floors (Wet & Dry Areas)
- Decorative Feature Walls
- Glass Mosaic & Designer Tile Installations
- Domestic and Commercial Applications
- Wider Tile Joints for Enhanced Sparkle

PRODUCT HIGHLIGHTS

- ❖ **SPARKLING TILE JOINTS** – Enhances grout lines with glittering Gold, Silver, or Copper tones
- ❖ **READY-TO-MIX FORMULA** – Mix directly with resin-based epoxy grout on site
- ❖ **VERSATILE USAGE** – Suitable for a wide variety of tiles and stones
- ❖ **EASY DISPERSION** – Blends smoothly with grout for even sparkle distribution
- ❖ **MULTIPLE COMBINATIONS** – Over 100 custom effects when blended creatively

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION GUIDELINES

1. CLEAN & PREPARE JOINTS

Ensure tile joints are dry, free from dust, debris, adhesive, or standing water. Joints should be cleaned to a minimum depth of 2/3 tile thickness.

Note: Do not use acid-based cleaners. If used, rinse thoroughly with clean water before applying grout.

2. SURFACE CHECK & SAMPLING

Conduct a sample patch test using epoxy grout mixed with **HYDAFFECT** on the actual tile/stone. This is especially important for natural stones and porous surfaces to assess aesthetic effect and compatibility.

3. JOINT & ADHESIVE INSPECTION

Ensure the adhesive has cured fully (minimum 24 hours after tile fixing). The joints should not retain moisture during the grouting process.

4. MASKING FOR CLEAN EDGES

Use masking tape or sealant on tile edges if necessary to protect surrounding areas and achieve neat finish lines.

HOW TO MIX HYDAFFECT

1. COMPONENT COMPOSITION

Use with compatible epoxy grout. The system includes:

- Part A (Base Resin)
- Part B (Hardener)
- Part C (Filler Powder)
- **HYDAFFECT** (additive for sparkle effect)

2. MIXING SEQUENCE

- Shake the hardener and stir the base before use.
- Mix Part A and Part B in a clean mixing pail. Stir with a slow-speed mixer (<300 RPM) until blended.
- Gradually add Part C (Filler) and mix thoroughly until lump-free.

- Add **HYDAFFECT** slowly to the mix until a uniform sparkling consistency is achieved.

3. MIX RATIO

- Ideal dosage: 50 gm per 1 kg of epoxy grout
- Range: 3% – 7% of total epoxy grout weight, depending on desired sparkle intensity.

4. POT LIFE & USAGE

- Use the mix within 45–60 minutes.
- Avoid high-speed mixing to prevent air entrapment.

APPLICATION TECHNIQUE

- Apply the grout using a hard rubber float or grout squeegee.
- Press firmly into joints to ensure full compaction.
- Hold float at 90°, then sweep at 45° across tiles to remove excess while packing grout.
- Work in small areas for better control and efficiency.
- Avoid letting grout sit on the tile surface too long.

CLEANING & FINISHING

1. INITIAL CLEANING

- Clean the surface within 30–45 minutes of application.
- Use a damp, textured sponge in circular motion to clean residue without dragging grout out of joints.
- Keep sponge clean and change water frequently.

2. FINAL TOUCH-UP

- If **HYDAFFECT** is not fully exposed, lightly press the joints with a finger dipped in soapy water to bring out sparkle.
- Clean tools and equipment with water before the grout hardens.

3. POST-CLEANING

- Any light haze or film can be cleaned using an alkaline detergent or Tile Cleaner.

PRO TIPS & PRECAUTIONS

- ✓ Apply only on completely dry tile joints
- ✓ Do not mix **HYDAFFECT** with cement-based grout
- ✓ Do not over-mix – reduces pot life
- ✓ Avoid water flow on ungrouted joints during application
- ✓ Protect from direct rain or foot traffic for at least 24 hours
- ✓ Not recommended for aggressive cleaning zones or steam wash areas
- ✓ For exterior/wet applications, consult technical support

PRODUCT SPECIFICATIONS & STORAGE GUIDELINES

● AVAILABLE PACKAGING

- **HYDAFFECT** is a specially formulated sparkle additive designed to enhance the visual appeal of epoxy-based tile grouts. It is to be mixed with resin-based (epoxy) tile grouts to provide a glittering, aesthetic finish.
- **PACKAGING SIZE:** 100 grams bottle
- **AVAILABLE COLOUR:** Gold, Silver, Copper
- **AVERAGE PARTICLE SIZE:** Approx. 0.2 mm
- **WATER SOLUBILITY:** Insoluble in water
- **MELTING POINT:** $\geq 170^{\circ}\text{C}$
- **DENSITY:** 1.5 g/cc
- **SHELF LIFE:** 36 months from the manufacturing date when stored properly in the original sealed container.

STORAGE LIFE

- Store in a cool, dry place between $+15^{\circ}\text{C}$ to $+35^{\circ}\text{C}$.
- Keep sealed when not in use.
- Protect from:
 1. Direct sunlight
 2. Moisture/humidity
 3. Extreme cold or heat
- Discard product if packaging is damaged or if contents have hardened.

GROUTING INSTRUCTIONS

WAITING TIME

Begin grouting only after a minimum of 24 hours from tile installation.

APPLICATION TIP

- Mix **HYDAFFECT** with RTM Epoxy Grout (Base + Hardener + Filler) just before application.
- Ideal dosage: 50g per 1 kg of epoxy grout (3% to 7% by weight).
- Perform sampling to confirm the desired sparkle intensity and compatibility.

COVERAGE DETAILS

- 100g bottle of **HYDAFFECT** is sufficient for approximately 2 kg of epoxy grout mix depending on desired sparkle level.

Note: Actual coverage varies based on:

- Tile size and joint width
- Grout joint depth
- Surface texture and application method

- Dosage percentage of **HYDAFFECT** used

SAFETY & APPLICATION GUIDELINES FOR HYDAFFECT

1. PERSONAL PROTECTION

- Wear suitable gloves, protective clothing, and eye/face protection.
- Keep out of reach of children.
- For professional/industrial use only.

2. EMERGENCY PROCEDURES

- **Skin Contact:** Rinse with plenty of clean water.
- **Eye Contact:** Rinse immediately and thoroughly with water; seek medical advice.
- **Inhalation/Ingestion:** Seek medical help immediately in case of accidental exposure.

MAINTENANCE

- Use mild pH-neutral cleaners (e.g., Tile Cleaner) for cleaning grouted surfaces.
- Do not use acid-based cleaners.
- Protect freshly applied grout from traffic and water for at least 24 hours.

PERFORMANCE LIMITATIONS

- Do not use with cement-based tile grout.
- Avoid application in areas subjected to high-pressure cleaning or steam cleaning.
- Not recommended for highly aggressive or industrial environments.
- Always test on a sample area before full-scale application.

End of TDS