

Description:

TechnoFix[®] GoldFlex TA is a very high performance polymer modified adhesive for tile on tile applications with high flexibility and bond strength for fixing large format tiles and stones on interior and exterior floor & wall.

TechnoFix[®] GoldFlex TA is especially designed for interior and exterior floor and wall installations of all types of ceramic tile, vitreous, semi-vitreous tile, glass mosaic tiles, large format thin tiles, precast terrazzo, engineered stones and natural stones, pavers and brick over concrete and on a variety of substrates. Good underwater shear bond allows this product to be used for wet areas like swimming pools, sauna, water bodies and wash rooms.

Application Includes:

TechnoFix[®] GoldFlex TA is the adhesive of choice for demanding substrates and less-porous tiles (0.08%) and can be used in all wet process applications. Typical Applications are:

- Tile on tile applications
- Swimming pools, Abattoirs, shower rooms
- Institutional kitchens, bathrooms
- Decorative cladding
- Laboratories, hospitals, canteens, etc
- Tiling corridors, pavements, podiums and roofs
- Suitable for ceramic tiles conforming to IS13712 (2006) types Ib,IIa,IIb

Features:

- Waterproof-Immersion will not affect adhesion
- Non-slip-Excellent Grab, good for vertical applications
- Thin or Thick bed-Multi-purpose
- Forms a watertight barrier- Suitable for immersion
- High adhesive bond strength-Suitable for large tiles
- Thixotropic-Slip Resistant & Excellent Grab

Cleaning

Tools and containers may be cleaned using clean water when the adhesive is still fresh. The hardened adhesive can be removed from tools mechanically.

Grouting

Grouting should be carried out after 24 hours. Use the appropriate grouting material from Techno Builders Solutions[®] range of cementitious and epoxy grouts. *The addition of TechnoCrete[®] AcrylBond to cement-based grouts will enhance adhesion to tile/stones edges, increase water resistance and improves flexibility.

Application Instructions

Substrate Preparation

Before starting any work ensure that the base is:

- Sufficiently flat to permit the specified flatness of finished tiling, bearing in mind the permissible thickness of the adhesive.
- Suitable for tiling in the service conditions to which it will be exposed
- Surfaces to be tiled must be dry, clean and free from loose material and contamination.

Surface considerations

- New Cement Sand rendering/Brick/Block Wall- Before commencing tiling, allow plastered surface to air dry for at least 2 weeks (3 weeks for swimming pools).
- New Concrete Bases- Before commencing tiling, ensure that bases have been allowed to air dry for at least 4 weeks.
- Existing Concrete/Screed Bases- Cut out all loose or hollow portions and make good with a 1:3 cement : sand mortar applied over a slurry bonding coat* and let it cure and dry for 7 days.
- Ceramic/Vitrified & Fully Vitrified Tile/Terrazzo/Hard Natural Stone Bases- Check that existing finish is firmly adhering to the base. Remove any loose or hollow sounding tiles and reprofile with a 1:3 cement: sand mortar over a slurry bonding coat*
- Slurry bonding coat is prepared by mixing 2 parts of Portland cement to 1 part of TechnoCrete[®] AcrylBond. Brush on the base immediately before applying the adhesive.

Mixing

Add TechnoFix[®] GoldFlex TA to clean water. Mix thoroughly until a lump-free mortar is obtained. A 30 kg bag will require approx. 6.3-7.20 liters of water to obtain a slump-free consistency. The adhesive is immediately ready-for-use and has a pot life of 3 hours. No further water should be added. Where mixing by weight is not possible, volume mixing can be carried out at site in the ratio of 1:3 (water: powder) In case of using TechnoCrete[®] AcrylBond: Use 1.5 liter of TechnoCrete[®] AcrylBond with 4.8-7.20 liters of water and 30 kg of TechnoFix[®] GoldFlex TA.

Application

- Spread not more than the area which can be tiled within the open time of the adhesive.
- Comb the adhesive to the required depth using a suitable square notch trowel.
- Press the tiles firmly into position with a slight twisting action, checking periodically that good contact is maintained with the back of each tile.
- Leave no voids behind tiles. Tiles should be fixed within 20 minutes of adhesive being applied, depending on the porosity of the surface and atmospheric conditions.
- Tiles can be adjusted up to 10-15 minutes after fixing. Touch the adhesive ribs periodically and if a skin has formed, remove the adhesive and apply a new layer.
- Leave adequate joints between individual wall and floor tiles unless self-spacing tiles are used.
- Clean off surplus adhesive from the tile face and between joints
- Note: Do not use in damp conditions and temperature less than 5°C. Use suitable clamps along with adhesive at the time of installation of tiles/stones at height of more than 6m. For larger

Spacers

Use TechnoFix® spacers or recommended by STIPL's Technical representative for uniform joint width

Coverage estimates

Approximately 3 kg/m² using a 6mm square notch trowel,
Approximately 4.1 kg/m² 8mm square notch trowel &
Approximately 5.3 kg/m² using a 10mm square notch trowel.

* The consumption rates of dry powder are based on lab trials and might vary subject to variation of subfloor level and surface regularity. The reverse profile of the used ceramic and the surface structure of the substrate to be covered are also important factors, besides the tile size, for the consumption of mortar.

Packaging

TechnoFix® GoldFlex TA is supplied in 30 Kg HDPE bag.

Storage & Self Life

TechnoFix® GoldFlex TA has a shelf life of 24 months if kept in dry store in its original packaging. High temperature and humidity storage may reduce this period.

Limitation/Watch points

TechnoFix® GoldFlex TA should not be used unless modified with TechnoCrete® AcrylBond, on painted surfaces. Movement joints should be provided in accordance with normal practice. Do not apply at temperatures below +5°C and above 40°C. In hot weather conditions, pre-condition TechnoFix® GoldFlex TA at 21°C for at least 24 hours and use chilled mixing water to extend open wet time. Substrate must achieve 2.4% moisture content for safe lying of tiles. Stiffened mortar must neither be diluted with water nor with fresh mortar. Do not apply TechnoFix® GoldFlex TA greater than 12 mm thickness on horizontal surfaces and 8 mm on vertical surfaces.

Health and Safety instructions

Protect your health while working with this material, always use safety goggles, gloves and safety clothing. When handling hazardous materials or pressurized materials, or during any application that may result in spills, splashes or airborne particles, a full face shield is strongly recommended. Protect yourself and others on the jobsite. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals.

Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area.

*Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

format tiles/stones, use clamps from 3.3m height. Leave movement joints at every 3m vertical interval and fill with a flexible sealant as per BS 5385.

Typical Properties at 25°C

Aspect	Free Flowing Powder	
Mixed Density	1.80 - 1.85 g/cc	
Bed Thickness	upto 6 mm	
Walls*	Use 6 mm X 6 mm square notch trowel	
Floors*	Use 12 mm X 12 mm square notch trowel	
Mixing Ratio (p.b.w = Parts by weight)	1 p.b.w. Water to 4 p.b.w. Adhesive	
Pot Life	3 hours	
Setting Time	24 hours	
Open Time (IS 15477-2004, Appendix C)	10 - 15 minutes	
Adjustability (IS 15477-2004, Appendix D)	25 minutes	
Shear Adhesion (IS 15477- 2004 Clause 4.6)	Dry condition, 1 day: > 4 KN Heat ageing conditions: > 5 KN	Dry condition, 14 days: > 10 KN Wet conditions: > 5 KN
Chloride content	< 0.2%	
Tensile adhesive Strength after dry storage,(28 days)- EN 1348	≥ 0.5 N/mm ²	
Tensile adhesive Strength after water Immersion -EN 1348	≥ 0.5 N/mm ²	
Tensile adhesive Strength after heat ageing-EN 1348	≥ 0.5 N/mm ²	
Slip-EN 1308	≤ 0.5 mm	
* All above properties have been tested at water powder ratio 0.210 and controlled condition as per IS 15477:2004		

DISCLAIMER: The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

EDITION: 08/2017/001

IDENTIFICATION NO: PD-018

Please note that this datasheet supersedes all previous versions.

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