

Description:

TechnoFloor® Flexifast SF is a high-solid, solvent-free aliphatic polyurea system for flooring applications. It is fast drying and fast-curing, enabling the full installation of the flooring system. TechnoFloor® Flexifast SF Ideal for use in dry process areas where the floor is subject to impact and medium/heavy duty traffic.

Application Includes:

- Warehouse ramps, garages, terraces, parking areas
- Outdoor and indoor stores, industrial shop floors
- Outdoor laundries, gas stations, etc.

Features:

- TechnoFloor® Flexifast SF can be applied in one layer, when the surface is smooth and properly pre-treat
- It cures fast providing quick tack free time, allowing most projects to be completed within one day.
- It provides high resistance to abrasion and mechanical stress.
- It shows high chemical resistance (in diluted acids-alkalis, car oils, petroleum, etc.)
- Seamless, hygienic finish
- Excellent resistance to UV light

Shelf Life

Shelf life is 24 months from the date of manufacturing when kept unopened in its original container, protected from frost and direct sunlight @5-40°C. Store in a cool & dry place in unopened condition.

Fire

TechnoFix® CleanzolPlus, TechnoPur® Eco Cleaner and TechnoSeal® EP 100 are flammable. Keep away from sources of ignition. No smoking in the event of fire extinguish with CO2 or foam. Do not use a water jet. TechnoFloor® Flexifast SF is non-flammable.

Storage

Store in dry conditions between 5° C and 30°C, away from sources of heat and naked flames, in the original, unopened packs. If stored at high temperatures the shelf life will be reduced.

Method of Application

Surface Preparation

It is essential that TechnoFloor® Flexifast SF is applied to sound, clean and dry surfaces in order that maximum bond strength is achieved between the substrate and the flooring system. All dust and debris should be removed prior to application of the product or its primer.

New concrete, or cementitious substrates, should be at least 28 days old and have a moisture content not exceeding 4%. Laitance deposits on new concrete are best removed by light grit blasting, mechanical scrubbing or grinding. Existing concrete floors which require refurbishment must be prepared to ensure a strong adhesive bond between the flooring system and the existing floor.

Mechanical cleaning methods are strongly recommended particularly where heavy contamination by oil and grease has occurred or existing coatings are present. To ensure adhesion, all contamination should be removed. Proprietary chemical degreaser may be used on small areas of light contamination only. Steel surfaces should be degreased and grit blasted to SA2½ immediately prior to application. The prepared surface should than be treated with one coat of TechnoSeal® EP 100.

Floor Joints & Cracks

Large cracks and damaged areas should be repaired with TechnoSeal® EP 1500 repair materials and leveled off. All existing expansion joints, movement joints are to be brought over through subsequent flooring system & to be treated with suitable sealants. Joint sealant & joint geometry should be compatible with the floor type used, intended exposure conditions and likely movement characteristics of the substrate All other stable joints (dummy joints, etc.) are to be filled up prior to lay the topping as per the designed thickness.

Joints should be cleaned, prepared as per specification & filled with suitable joint filling material. Consult technical team for detailed specification in case of other type of joints.

Priming

All surfaces treated with TechnoFloor® Flexifast SF should be primed with TechnoSeal® EP100 designed for maximum absorption and adhesion to concrete substrates. Add the entire contents of the hardener tin to the base tin and mix the two primer components thoroughly for at least 2 minutes - under no circumstances should part mixing be considered.

Once mixed, the primer should be applied immediately to the prepared substrate using stiff brushes and/or rollers. The primer should be well 'scrubbed' into the substrate to ensure full coverage, but care should be taken to avoid over application or 'ponding'. Allow the primer to dry (see table below) before proceeding to the next stage, do not proceed whilst the primer is 'tacky' as this will lead to unsightly marks in the finished surface.

Porous substrates may require a second primer coat - when the first coat is directly absorbed into the substrate - but minimum over coating times must still be observed (see table below). The over coating times will vary slightly according to the porosity of the substrate. However, they should be in accordance with the following ambient application temperatures.

@20°C: 6-24 hours, @30°C: 3-16 hours & @40°C: 2-10 hours

Cleaning

All tools and equipments should be cleaned immediately with TechnoFix® CleanzolPlus -Epoxy cleaner solvent after application on using fresh water. Hardened materials must be cleaned mechanically.

Packaging

TechnoFloor® Flexifast SF is supplied in 5, 10 & 20 kg pre-weighted kit size.

Product only for professional use.

Health and Safety instructions

TechnoFloor® Flexifast SF, TechnoSeal® EP 100 and TechnoPur® Eco Cleaner & TechnoFix® CleanzolPlus should not come in contact with the skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately- do not induce vomiting.

Additional Information: Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd - The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

*Separate datasheet are available on these products.

Mixing

TechnoFloor® Flexifast SF flooring system is supplied in multi pre-weighted packs (base, hardener, Filler and colour pack) which are ready for immediate on-site use. Part mixing of these components is not acceptable and will affect both performance and appearance of the finished floor. Mixing should be carried out using either a forced action mixer; or a heavy duty, slow-speed drill fitted with an electric drill in slow circular motions to assure complete mixing.

Mixing should not exceed 3 minutes. The components should be mixed in a suitably sized mixing vessel. The colour pack should be added to the base container and mixed for 15-30 seconds, until homogeneous. Then add the hardener and mix for further 30 seconds, until an even colour and texture is obtained. Thereafter, the contents of the filler pack should be slowly added and mixing carried out for a further 3 minutes until a completely homogenous material is obtained.

Application

TechnoFloor® Flexifast SF can be applied rolled or brushed without dilution, or diluted with TechnoPur® Sol 300- solvent For PU and Polyurea up to 3% in case of high temperature during the application. Immediately after mixing, spread all the material onto the surface and apply it homogeneously using a short pile roller or a brush where necessary. The second layer of TechnoFloor® Flexifast SF can be applied 2 hours after the first layer.

Anti-slip floor: Immediately after the application of the 1st layer of TechnoFloor® Flexifast SF, broadcast homogeneously the floor surface with TechnoFix® SRA-quartz sand, with maximum grain size 0,2 mm (e.g. Quartz Sand M34). The usage of quartz sand with higher grain size, like Quartz Sand M32, provides more intense anti-slip properties. After 3 hours remove the excess sand with a vacuum cleaner and re-apply TechnoFloor® Flexifast SF. In this case, the consumption is 0,500-0.700 kg / m² for 2 coatings.

Maintenance: Cleaning the cured system is best done by mopping the surface with mild soap and water or a mild detergent. Some cleaners may affect the colour of the installed floor. Test each cleaner used in a small area, ensuring no damage occurs.

Typical Properties

Appearance	Different colour shades
Mixing Ratio (Pack A : Pack B)	3A:2B by weight
Appearance	Different colour shades
Mixed Density	Approx. 1.33 kg/l
Adhesion strength	≥ 3 N/mm ² (EN 13892-8, concrete)
Abrasion resistance	62 mg (Taber test CS 10/1000/1000)
Relative atmospheric humidity	<80%
Impact resistance (EN ISO 6272 on metal)	7 Nm
Surface humidity content	<4%
Application temperature	+5°C up to +35°C
Total hardening	24 hours
Pot Life	20 minutes @ 12°C, 10 minutes @30°C
Overcoating - Walkability - Light Foot Traffic	3 hours @12°C, 2 hours @30°C
Full cure - Heavy Traffic	36 hours@12°C, 24 hours @30°C
Consumption	200 gr/m ² per layer (depending on substrate)

Note: The coverage figures given are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced. Typically, an additional 10% should be allowed for surface irregularities and wastage although this will vary with site conditions.

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Please note that this datasheet supersedes all previous versions.

Precautions & Limitations

- After stirring the entire mixture, leave it in the can for 1 minute and then spread immediately all the material onto the surface, to avoid the polymerization of the product into the container.
- Due to the quick curing rate and drying time, it is suggested to thoroughly evaluate the product before using. Mix as much material as you can apply within its pot life.
- Do not over roll or backroll during the application. Rub-out may be faced, because of quick drying.
- It is recommended to change the application roller every 100m2 of continuous application. Use different roller for each layer.
- The surface should be dry during application and protected from rising moisture. In case of rising moisture, the surface should be primed with TechnoSeal® EP-M. The product should not be applied at temperatures 80%, surface humidity content >4%, or if humid conditions are expected to prevail during the curing period of the paint film. Otherwise, blisters will be created on the surface of the coating, leading to aesthetic issues.
- Allow at least 4 weeks to pass between casting new concrete structures and applying the product.
- Overcoating a freshly painted surface must take place within 24 hours, otherwise it is suggested to scrub lightly the freshly painted layer to avoid possible adhesion problems.
- On metallic horizontal surfaces, apply one or two layers TechnoSeal® PrimePlus, 12 hours before the application of TechnoFloor® Flexifast SF.