



STERLING TechnoFinish® ConKure 101

High Efficiency Acrylic resin based Concrete Curing Compound.

THE SPECIALIST CONSTRUCTION CHEMICAL COMPANY

Description:

TechnoFinish® ConKure 101 is a range of liquid curing compounds for the prevention of premature water loss in concrete. TechnoFinish® ConKure 101 is applied to fresh concrete surfaces to form a fast dry, thin flexible and tough, impervious membrane which protects the concrete from rapid water evaporation during initial curing stages, thereby assisting towards obtaining maximum strength, durability, assists in the retention of water during hydration and helping towards the elimination of shrinkage cracks and surface dusting.

Additionally, the membrane acts as a primer system for many subsequent surface finishes that do not rely on penetration for substrate bond. When applied to floors, the TechnoFinish® ConKure 101 seals and dustproof the surface, eliminating the primary source of abrasion while enhancing durability. TechnoFinish® ConKure 101 is available as a clear translucent liquid and is also available as white solar reflective version.

Application Includes:

TechnoFinish® ConKure 101 is recommended for use in the following areas of application:-

- Roof & bridge decks
- Aprons, hard standing & retaining walls
- Pre-stressed beams and piers, etc.
- Highways, runways and taxiways
- Column, beam & precast unit

Features:

- Improves moisture retention in concrete
- Prevents rapid water evaporation
- Sealer & dustproof
- Good abrasion resistance – long protection
- Reduces drying shrinkage
- Reduces the incidence of hairline cracks
- High curing efficiency
- Available in Solar reflective grade
- Non-degrading-no removal required
- Act as primer for protective coatings
- Save time and eliminates need for damp Hessian and polythene sheet

Instructions for use

Surface preparation

New Concrete- Application to freshly placed concrete should not begin until the surface is free from water, and should not commence at all if bleed water is apparent. TechnoFinish® ConKure 101 should be applied as soon as practically possible after removal of shuttering, and whilst the concrete surface is still damp. However, any traces of laitance, grout runs or loose material should be removed.

Mixing

TechnoFinish® ConKure 101 should be gently stirred immediately prior to use to ensure uniformity of the material as applied.

Application

TechnoFinish® ConKure 101 should be applied uniformly by brush, roller or spray, with no overlap of applications. Under standard site conditions, a single coat of TechnoFinish® ConKure 101 applied at a uniform rate of 4 to 5m² per Kg/litre. In case of sealing and dustproofing application, 2 coats at the above range must be applied.

The second coat should be applied at coverage of 10-12m² per Kg/ litre. For ease of application, 2-3% of water shall be added to TechnoFinish® ConKure 101 and mixed thoroughly before application. The applied film should not be trafficked until fully dry, and care should be taken to ensure that the film is not broken.

Spray equipment

Motorised or knapsack spray equipment, which produces a fine spray, is recommended for use with TechnoFinish® ConKure 101

Cleaning

Spray equipment should be cleaned immediately after use by flushing through with water. Any residual traces of resin which are left in the nozzle may be cleaned with warm water.

Subsequent finishes

TechnoFinish® ConKure 101 allows direct application of many floor coverings and paint systems, as given typically below:

- Water based emulsion paints containing PVA, PVC, acrylic co-polymers.
- Bituminous emulsions and solutions
- Thin section polymer modified cement systems
- Epoxy resin coatings which do not rely on penetration for substrate bond
- Polyurethane coating & Water and solvent based acrylic coatings

Coverage

~5m² per Kg/litre. Coverage figures quoted TechnoFinish® ConKure 101 are indicative; and based upon application to fresh or damp concrete at the appropriate time. This corresponds to that at which TechnoFinish® ConKure 101 has been tested, and at which it attains the claimed degree of curing efficiency. In favorable conditions such as shaded interior surfaces, adequate curing can be achieved with extended coverage rates.

When using TechnoFinish® ConKure 101 for floor areas where maximum chemical and wear resistance is required, it is recommended that a further coat be applied after 24 hours. In place of the above recommendations, the rates of cover stipulated in a specification should at all times be observed. Care should be taken to ensure that the concrete is indeed ready to accept the curing membrane.

Shelf Life & Storage

When stored in warehouse conditions below 35°C, TechnoFinish® ConKure 101 has a minimum shelf life of 12 months. Freezing and exposure to heat and/or direct sunlight should be avoided. Containers should be kept sealed and airtight to prevent any reduction in shelf life.

Packaging

20, 30 & 210 Kg drum

Precaution & Limitations

- Do not dilute or add any water at the time of application of TechnoFinish® ConKure 101
- TechnoFinish® ConKure 101 should only be applied within the temperature range of >5°C and <45°C.
- Any concrete surfaces which receive treatment with TechnoFinish® ConKure 101 should not be disturbed until the concrete has gained sufficient strength to bear surface loading.
- TechnoFinish® ConKure 101 should not be exposed to moving water, or rain, during application or before it has become tack free.

Cleaning

All tools, equipment and surrounding areas must be cleaned with water before the product sets. Hardened materials have to be mechanically removed

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.

Typical Properties at 25°C

Form	Liquid
Colour	White Liquid and is also available in clear translucent liquid version.
Chemical Base	Acrylic resin copolymer.
Substrate Temperature	min. + 5°C; max. + 35°C
Ambient Temperature	min. + 5°C; max. + 35°C
Specific gravity@ 25° C	White version - ~ 1.07 ± 0.02 Clear version - ~ 1.04 ± 0.02
Moisture retention	< 0.55 kg/m ² (ASTM C156)
Day light reflectance	> 60%
Dry film appearance	white / Clear
Adhesion of tile cement	>0.5 N/mm ² (ASTM C1315/ASTM D4541)
Standards	White version – ASTM C309 Type II Class B Clear version – ASTM C309 Type I Class B
Solids content (ASTM D1644)	White ~33 ± 1% -
Drying time	3hrs @ 25°C (ASTM C135, M 8.3)

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.

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Please note that this datasheet supersedes all previous versions.

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.

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