



# TECHNY CHEMY

## TEC<sup>®</sup> NOVA SF

Seamless epoxy screed flooring

### KEY BENEFITS AND FEATURES

- Outstanding compatibility with concrete and masonry.
- Provides a tough, durable floor topping with outstanding wear resistance.
- Exhibits exceptional bond strength on old and new concrete floors.
- Slip resistant topping for both vehicular and pedestrian traffic.
- Resistant to a wide range of chemicals commonly used in an Industrial environment.
- Protects the concrete floor surface exhibiting high abrasion resistance.
- Forms into a seamless floor topping that are hygienic and easy to clean.
- Various thickness options available.
- Enhances aesthetics of the work environment.
- Fast and Easy to apply. Supplied in pre-weighed 3 part system to ensure mix consistency and to avoid site errors.

### USAGE

- Ideal choice for Heavy industrial production units, Automobile and auto- parts manufacturing units, Paper units, Storage areas, loading bays, etc.
- The topping when finished with Tec Nova FC range of floor coating systems is resistant to a wide range of chemicals making it a suitable flooring system for food processing zones and other chemical industries.
- The Screed mortar can also be used to repair spalled concrete columns, piers, bridge decks, etc.

### DIRECTIONS FOR USE

Surface preparation : Proper surface preparation is the key to any successful Epoxy application. The surface to be topped should be free of dust, laitance, oils or other contaminants. Mechanical means like Grit Blasting or grinding should be adapted to remove surface contaminants. The surface should be dry and should not suffer water ingress. Acid etching with diluted Hydrochloric acid followed by copious water washing will produce a surface similar in texture to fine/medium grit sand paper.

For old floors with heavy oil contamination, detergent washing with mechanical scrubbing should be followed by thorough water washing.

For new concrete floors ample time should be allowed after completion of curing. The moisture content before application of the primer should not exceed 5%.

Priming coat of Tec Nova Primer EP should be applied prior to application of Tec Nova SF.

Mix the two primer components in one lot and apply immediately on to the surface. Work the Primer into the surface while ensuring that there are no puddles of excess material. A second coat should be applied if the first coat is fully absorbed into the substrate and the surface appears parched. Blow out any air bubbles in the primer coat. Tec Nova SF should be applied over the primer once the solvents in the primer have evaporated but while the coating is still in the tacky state. This may take between 1 to 3 Hours depending on ambient temperatures and substrate porosity.

Mixing : Tec Nova SF is a three component system. For consistent results mix the entire contents of Part-B Hardener to Part-A Base and mix gently for about 2 minutes preferably with a slow speed drill fitted with a stainless steel mixing paddle. The resulting homogenous mix must be of uniform shade. Care should be taken to maintain a clean environment in the mixing area to ensure that the mix is free of any contaminants. Part-C- Aggregates should be blended well before adding to the homogenous Resin-Hardener mix. Part-C- aggregates should be added to the Resin-Hardener mix slowly while continuing to mix. It is recommended that the blending of Parts-A, B&C be carried out in a forced action planetary type mixer. The entire content of Part-C should be added to the mix and mixing should continue for another three minutes. The blended mix should then be applied well within the pot life, after which the mix will not be workable.

Application: Sufficient material required for the planned floor area to be covered should be made available at site. Mixing and application should be proceed in a well coordinated manner. The homogenous mix should be applied over the tacky



Certified:  
ISO 9001 (QMS) & ISO  
14001 (EMS)



Primer coat quickly ensuring that the entire mix is used up well within the pot life. thickness and simultaneously ensuring that the required thickness is achieved. The spread screed should than be tamped with a box type stainless steel section to ensure uniform thickness. The leveled screed should than be finished with a stainless steel float to ensure maximum compaction and uniform surface finish. For further enhancing the finish the screed may finally be floated with a power trowel fitted with stainless steel blades. Workability time will depending on ambient temperatures and on Releative Humidity. In any case it is recommended that sufficient trained man power be made available at site to ensure that spreading and finising be complited within twenty minutes from mixing. Avoid application at temperatur above 35 C or below 15 C.

Floor Expansion joints should continue through the Tec Nova SF topping

For areas with continuous wert operation and areas that require to clean top coats from the Tec Nova FC range may be applied.

Post Application : Tec Nova SF should be allowed to self cure at room temperature for a minimum period of 36 hours before being opened to pedestrian traffic. Vehicular traffic may be allowed after 7 days of curing at room temperature. Prior inspection by the applicator is advised before permitting traffic.

Cleaning : Tools and equipments should be cleaned with Tec Nova TC- Tool Cleaner when the mix is in uncured state. Cured mix can only be removed mechanically.

Precautions : Prolonged inhalation of solvent vapors should be avoided. Direct contact with skin or eyes should be avoided. Use of gloves, goggles and other protective gear is mandatory. Enclosed spaces should have adequate ventilation. Where ventilation is inadequate use of suitable breathing apparatus is advised. In case of accidental eye contact thorough water washing is advised. This should be followed up with professional medical assistance. Neither the individual components nor the mix should be swallowed. The Primer and Tool cleaner are inflammable and should not be directly exposed to flame.

#### TECHNICAL DATA:

Physical State	Part- A- Liquid Part-B- Liquid Part-C- Aggregate
Pot Life at 30°C	20-30 minutes.
Initial Cure	15-20 hours
Final Cure	7 days
Flexural Strength after 7 days in N/mm <sup>2</sup>	30
Tensile Strength after 7 days in N/mm <sup>2</sup>	15
Compressive Strength after 7 days in N/mm <sup>2</sup>	80
Chemical Resistance	Separate chart available on request.
Tec Nova Primer EP	6-8 SqM/Kg of Mix.
Tec Nova SF- Screed	1.3 SqM/13.5 Kg of Mix/5mm thickness
Storage	Store in cool, dry location
Shelf Life	Maximum of 1 year from date of manufacture in unopened package
Colour	Off White

#### Packaging:

Available in: 11.5 Kg Packing

#### OTHER PRODUCTS

Techny manufactures lot more range of other products for construction and repair applications. They include admixtures for concrete, mortars, block making etc, waterproof and damp proof coating systems, Repair and rehabilitations products, Grouts and Anchors, Protective, Decorative and Corrosion prevention coatings, Epoxy Flooring systems, Industrial flooring systems and Tiling aids. For more details refer Separate Product brochures.

Every reasonable precaution is taken in the manufacture of the Techny products to ensure that they comply with high standards of quality. The recommendations and properties of the products are based upon what is believed to be the most reliable information available and are not intended as recommendations which infringe other patents. Although all Techny products are subject to rigid quality tests, no specific guarantee can be given, because results depend not only on quality but also on other factors beyond our control. We therefore welcome consultation in the event of doubt about application performance etc but do not accept any liability either directly or indirectly arising from the use of the products whether used as per its specifications or advice or otherwise. All transactions shall be subject to our terms of sale, delivery and payment. The leaflet supercedes the previous one and any new issue may take place without notice to supercede this edition as and when it becomes necessary.

TECHNICAL DATA SHEET  
REVISED – 01 July 2013

#### CORPORATE OFFICE :

No.24, Patel Street, Ayyappa Nagar, Tiruchirappalli-620021. Tamil Nadu, India  
Phone : 0431 2458519 Fax No : 0431 2458590 Email : info@technychemy.co.in  
Web : www.technychemy.co.in