

# DURA BUILD CARE PVT. LTD.



AN ISO 9001 : 2008 COMPANY

## DURAXY FG

*Food Grade solvent free epoxy Coating*

### DESCRIPTION

A two-component solvent free epoxy coating, specially formulated for internal applications of potable water tanks. It has anti-microbial and anti-fungal properties. Most effective in preventing the growth of harmful elements that are hazardous to human beings. It is a non-toxic and ecofriendly. It is 100% safe for potable water contact. It possesses excellent water resistance, adhesion, hardness & toughness properties similar to solvent based epoxy compositions. The smooth & glossy finish of the coating prevents dust generation, so maintains the clean & eco-friendly environment

### AREAS OF APPLICATION

- Hotels & restaurants.
- Apartments, halls, department stores, schools.
- Gymnasiums, hospitals & laboratories.
- Workshops, garages & parking areas.
- Pulp & paper industries, sugar industries.
- Oil industries.
- Food industries, dairies, breweries, soft drinks bottling plants & clean rooms.
- Swimming pools, water tanks, basement, sewerage treatment plants, water treatment plants.
- Machinery mountings.
- Can be used on walls/ceilings to resist chemical attack.

### FEATURES & BENEFITS

- ❖ Microbial resistance - Possesses anti-fungal property and is resistant to microorganism growth.
- ❖ Eco-friendly
- ❖ Non-hazardous and non-flammable
- ❖ Provides excellent water-resistant coating.
- ❖ Water permeability - Reduces water permeability.
- ❖ Excellent resistance to water, salt water, mild acids, alkalis & soap water.
- ❖ Water dilutable with high covering capacity hence economical.
- ❖ Solvent free
- ❖ Anti skid coating

### JOINT DESIGN

- Joints should be cleaned and prepared.
- Expansion & moving joints are to be brought over through subsequent flooring system & sealed with properly selected sealants or suitable joint filling material.
- All other stable joints (dummy joints, etc.) are to be filled up prior to laying of the screed, as per the designed thickness.

## METHOD OF APPLICATION

### 1) *Surface Preparation*

- All surfaces must be sound, clean and free from standing water.
- Surfaces may be slightly damp or dry.
- The surfaces must be totally free of contaminants such as chemicals, dust, oil, grease etc. concrete, mortar.
- Stone surface must be thoroughly prepared to remove any surface laitance, dust and friable material.
- Surfaces may be best prepared by sand blasting or etching with acid to provide a rougher surface for good bonding.

### 2) *Priming*

- Apply with a brush or roller a priming coat of **DURAXY-P** to the prepared surface.
- Allow the primer to dry (maximum 24 hours) before application of **DURAXY FG**.
- For detailed application methodology of priming, refer datasheet of **DURAXY-P**.

### 3) *Mixing*

- Mix all of Pack A (Base) with all of Pack B (Hardener) for 2 – 3 minutes until it is smooth, with spatula or drill or paddle.
- Please see little air is in the mix.
- Packs A & B are reweighed and should be used in full quantity.

### 4) *Application*

- **DURAXY FG** should be applied as soon as the mixing process has been completed.
- It can be applied by brush, roller or airless spray to the prepared surfaces.
- The new concrete or screed may be applied to the coated substrate well within the stipulated open time.
- However, normally the coated substrate should be left for one hour before the fresh concrete or epoxy screed is placed.

### 5) *Cleaning*

All tools & tackles are to be cleaned immediately after application with industrial grade xylene, toluene, acetone & thinner followed by soap water solution.

## PRECAUTIONS & LIMITATIONS

- Ensure that proper vapour barrier is placed below concrete substrate.
- Substrate temperature should be 5°C above the measured dew point.
- In case of acid cleaning, neutralize the substrate with plenty of water (litmus paper test) & then check the moisture level when it is dry.

## TECHNICAL DATA

PROPERTIES	DESCRIPTION
Colour	Transparent
Density @ 30°C, kg/cm <sup>3</sup>	1.06 ± 0.01

Viscosity, mPas	4300-4700
Min application Time	5 <sup>0</sup> C
Compressive Strength, Kg/cm <sup>2</sup>	800-1000
Flexural Strength, Kg/cm <sup>2</sup>	500-600
Tensile Strength, Kg/cm <sup>2</sup>	200-300
Temperature Resistance	60 <sup>0</sup> C
Mixing Proportion Pack A : Pack B	5:2
Bond Strength with Al metal strip, kg/cm <sup>2</sup>	75-100
Pot Life @ 30°C, minutes	30-45
Touch dry time, hours	2
Full Cure, days	7

#### COVERAGE

3 to 4 m<sup>2</sup> per kg depending on the surface texture and porosity.

#### SHELF LIFE & STORAGE

12 months if unopened. Keep it in a cool place

#### PACKING

In 3.5 Kg (2.5 kg Pack A + 1 kg Pack B) & 14Kg (10 kg Pack A + 4 kg Pack B)

#### HEALTH & SAFETY

- Keep away from naked flame.
- Do not smoke while using it.
- Handle with care.

**IMPORTANT:** Though the product may change with some code as suffix or addendum to the principal or original name out of some minor adjustment and fine tuning in the formulation due to our continuous research and development but shall exhibit the stated properties with more improvement.

**WARRANTY:** Our high potency products are manufactured under stringent National/International Quality Standard specifications and guaranteed against any manufacturing defect. Suggestions and recommendations are made here based on our most practical experience and exposure over 25 years in the field and are believed to be most appropriate and correct BUT no liability can be accepted by us, as the conditions of use of such products are beyond our control.

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