



## ENVIRONMENTALLY FRIENDLY TOP FACE CONCRETE SURFACE RETARDER

### DESCRIPTION

Ecotard TF is an aqueous liquid suitable for either spray or watering can application. It retards the set of the surface cement matrix of freshly cast concrete for easy removal.

### ADVANTAGES

- Stain-free suitable for white and standard OPC
- Environmentally and user friendly
- Alleviates need for labour intensive hacking
- Contact with reinforcement will not prevent bond to concrete

### USES

- To expose natural colour and texture of the coarse aggregate.
- To produce a keyed surface for efficient bonding of subsequent toppings.
- To provide a non-slip surface on pavings.

### SPECIFICATION

<b>Colour:</b>	Colourless
<b>Coverage:</b>	5 sq meters per litre will generally be sufficient
<b>Packaging:</b>	210 litre drum, 25 litre bucket
<b>Storage:</b>	Protect from frost and direct sun shine. Keep containers sealed after use.
<b>Shelf Life:</b>	1 year in sealed containers when stored as recommended

### APPLICATION

- Ecotard TF should be applied either by spray or watering can to freshly placed horizontally cast concrete at a rate of 5 sq.mts per litre immediately after placing and compacting and removal of any excess surface water.
- After treatment protect from exposure to wind or early applied heat as this may evaporate the retarder carrier before it has penetrated the concrete surface.
- Do not use on concrete containing accelerators.
- Any absorbent covering to the concrete should not come into contact with treated face.
- Retardation time is dependent on many factors so check for optimum time for removal of cement matrix.
- Remove retarded matrix by low pressure water jetting, brooming or wire brushing in two directions at right angles to each other.

### QUALITY ASSURANCE

Products are manufactured under quality assured schemes.

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## 1.0 IDENTIFICATION OF SUBSTANCE/PREPARATION

**Product Name:** Ecotard TF  
**Description:** Environmentally friendly top face concrete surface retarder  
**Company:** TU-Chem Limited  
26 Elton Avenue  
High Barnet  
Herts, EN5 2EA  
Tel: 020 8447 0840

## 2.0 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.0 HAZARD IDENTIFICATION

**Main hazards:** No significant hazard

### 4.0 FIRST AID MEASURES

**Skin:** There may be mild irritation at the site of contact. Wash immediately with plenty of soap and water.

**Eyes:** There may be irritation and redness. Bathe the eye with running water for 15 minutes.

**Ingestion:** There may be irritation of the throat. Wash out mouth with water.

**Inhalation:** No symptoms. Consult a doctor.

### 5.0 FIRE FIGHTING MEASURES

**Extinguishing media:** Product does not support combustion

**Protection of fire fighters:** No special measures required.

### 6.0 ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Refer to section 8 of MSDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid.

**Environmental precaution:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**Clean up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 7.0 HANDLING AND STORAGE

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Protect from frost and sun shine.

**Suitable packaging:** Must only be kept in original packaging.

### 8.0 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Respirable dust WEL (8 hr exposure limit):** 4 mg/m<sup>3</sup>

**Respiratory Protection:** Respiratory protection not required.

**Hand protection:** Protective gloves

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

### 9.0 PHYSICAL AND CHEMICAL PROPERTIES

**State:** Liquid

**Colour:** Colourless

**Odour:** Odourless

**Solubility in Water:** Highly soluble

### 10.0 STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions

**Conditions to avoid:** Heat

**Materials to avoid:** Strong oxidising agents. Strong acids

**Haz. decomp.products:** In combustion emits toxic fumes

### 11.0 TOXICOLOGICAL INFORMATION

**Routes of exposure;** Refer to section 4 of MSDS for routes of exposure and corresponding symptoms.

### 12.0 ECOLOGICAL INFORMATION

**Mobility:** Readily absorbed into soil

**Persistence and degradability:** Biodegradable

**Bio accumulative potential:** No bioaccumulation potential

**Other adverse effects;** Negligible ecotoxicity

### 13.0 DISPOSAL CONSIDERATIONS

**Disposal operations:** Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.

**Waste code number:** 16 03 06

**Disposal of packaging:** Any special regulatory disposal status or provisions applicable to the product may also apply to empty containers or packaging if they contain, or are impaired with residual material.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### 14.0 TRANSPORT INFORMATION

Not classified as hazardous for transport.

### 15.0 REGULATORY INFORMATION

**Hazard Symbols:** No significant hazard

**Precautionary phrases:** Contains nipacide cfx/3. May produce an allergic reaction.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

### 16.0 OTHER INFORMATION

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