TESCO TUFF HC1 PRIME
PRODUCT DATA SHEET

Product Overview

Single component, water-based primer for sealing and stabilising substrates.

Description

TESCO TUFF HC1 PRIME is a rapid curing, water-based formulation consisting of an acrylic copolymer modified with a unique water-emulsified epoxy cross-linking agent. It is inherently hydrophobic and alkali resistant, making it ideal for use over a wide range of new and aged mineral substrates.

It is a non-hazardous formulation applied by brush, roller or airless spray to prime and stabilise surfaces prior to the application of the **TESCO TUFF** specialist membranes.

Uses

Designed as a surface pre-treatment for the **TESCO TUFF** range of specialist membranes. Suitable for treating a range of substrates, including:

- Concrete
- Mortars and Renders
- Masonry
- Polyurethane Foam
- Phenolic Board
- Existing Paints
- Plaster
- Concrete Repair Mortars.

Advantages

- Enhances bond by combining penetration into the pore structure with a surface film-forming effect to produce a stabilised, sound surface ideal for treatment.
- Reacts with subsequently applied coatings to provide a chemical bond giving excellent adhesion.
- Dries quickly without the release of hazardous solvents and can be overcoated after just 1 hour.
- Contains a pre-reacted epoxy cross-linking agent dispersed in water to minimise health hazards.
- Equipment is easily cleaned with water.
- Low VOC, single component, water-based formulation.
- Easy and safe to apply. Green tint ensures complete coverage of substrate.
- Minimal wastage, container can be re-sealed and stored for future use.
- Cures to a clear film with an identifying green tint.

Application Instructions

Preparation

Surfaces must be free from dirt, dust, oil, grease, organic growth and any extraneous substances that could impair adhesion or affect curing. Prepare surfaces by mechanical means. Use techniques capable of achieving the required degree of preparation, such as wet grit or water blasting techniques or equivalent approved methods. Ensure any existing paints are fully adhered before priming.

Mould, bacterial or algal growth should be first treated with **TESCO TUFF HC1 WASH**. Alternatively, if a bleach solution is used, thoroughly rinse the surfaces with clean water before proceeding.

Ensure the moisture content of the surface is less than 20% WME (wood moisture equivalent) as measured by a Protimeter, which equates to a relative humidity of 84% in the substrate.

Do not apply when raining or when rainfall is imminent.

Equipment

Brushes: Wide, soft nylon or bristle paint brushes.
Rollers: Medium pile sheepskin roller or equivalent.
Spray: Airless spray at 2500-3000 psi with 11-19 thou tip size.

Application

Structural Repair Mortars may be primed after an overnight cure at a maximum spread rate of 5m²/litre by brush, roller or airless spray.

Apply as above on cured concrete. On green or damp cementitious substrates, two coats may be required. Salt laden substrates will also require two coats.

On other non-absorbent substrates, the coverage rate may be as high as 10m²/litre.

Coverage rates are for smooth surfaces. Uneven substrates will reduce coverage.

Allow primer to dry before proceeding. Overcoat ideally within 24 hours and within 7 days. Any delay after this time will necessitate re-application of the primer.

Storage Recommendations

All tools should be cleaned with water immediately after use.

Shelf-life is 2 years for unopened containers stored in dry, frost-free conditions away from heat.

Packaging and Coverage

- **TESCO TUFF HC1 PRIME** is supplied in 5 litre & 25 litre units.
- 5 litres will cover 25-50m².
- 25 litres will cover 75-250m².

Safety & Handling

Please refer to the relevant Safety Data Sheet (SDS) prior to handling or use. Use materials in strict accordance with published recommendations. Dispose of waste materials in accordance with local, state and federal regulations.

Technical Assistance

For further information, please contact Tuff Technical Services on 01977 680250. More information can also be found at www.tuffstuff.co.uk

Technical Data

Property		EN 1504-2 Requirement	Typical Result
Base	EN 1542	≥ 0.8 MPa Crack bridging or flexible systems	≥ 3.5 MPa
Solids Content	EN ISO 7783	Class I (Permeable) S_D< 5m	S_D =1.64m
Drying Times	EN 1062-3	Class III (Low) W< 0.1 kg/(m^2.$h^{0.5}$)	W = 0.04 kg/(m^2.$h^{0.5}$)
Note - Very high humidity will increase dry/cure time.			
Substrate Moisture Excellent tolerance to substrate dampness. The upper limit of 20% wood moisture equivalent (wme) as measured by a Protimeter relates to the subsequent coating application.			
The properties given above are obtained from laboratory tests: results obtained from on-site testing may vary according to site conditions			

Application Top Tips

- Rough, porous or irregular substrates will reduce coverage.
- For brush application use wide, soft nylon or bristle brushes.
- For roller application use medium pile sheepskin rollers or equivalent.
- When applying by airless spray techniques use an 11-19thou tip and spray at 2500-3000psi.
- Clean brushes and rollers occasionally during use.
- Regularly clean spray nozzles to avoid blockages.
- Spray equipment must be emptied and flushed at the end of the working day.
- Cold Weather Working (See separate Guide)
  - Do not apply below 5oC.
  - Do not use any product which has been frozen.
- Protect from prolonged storage at high temperatures(≥40°C).