

## ET Slurry

### Description

ET SLURRY is a three pack material, consisting of equal volumes of Epoxy resin BASE and tar-modified Amine CURING AGENT components, together with a graded FILLER. The mixed material provides a waterproof, flexible, abrasion resistant, and seamless wearing surface, to which the broadcasting of an appropriate aggregate can confer non-slip or non-skid characteristics.

### Typical Uses

Footbridges, ramps, chemical bunds, sewage treatment works, effluent plants, wet working environments, car parks etc.

### Advantages

- \* Fast cure
- \* Excellent resistance to water and chemicals
- \* Flexible
- \* Extremely durable and hard wearing
- \* Non-slip or non-skid
- \* Very good adhesion to concrete and steel surfaces

### Typical Properties

Colour:	Black
Pot life:	30 minutes @ 20C
Walk on time:	4 hours @ 20C
Cure time before vehicular traffic:	16 hours @ 20C
Time before immersion:	1 day @ 20C
Full chemical resistance achieved:	7 days @ 20C
Compressive strength:	38 N/Sq.mm.
Flexural strength:	28N/Sq.mm.
Temperature range	During application 3C to 40C In service -30C to 60C

### Chemical resistance:

Excellent resistance to petrol, oil, aqueous acids and alkalis, sea water, etc.

### PROCEDURE

#### 1. Surface Preparation

All surfaces shall be sound, clean, and free from dust, grease, scale, and other contaminants.

##### a) Concrete substrates

New concrete shall be a minimum of 21 days old.

Laitance shall be removed, preferably by mechanical means such as grit blasting. Any honeycombing or blowholes shall be filled using EPA mortar, or a Floorpatch.

##### b) Steel substrates

Shot blast or grit blast to a bright metal finish, (Sa 2.5 minimum) and remove all dust.

#### 2. Priming

##### a) Concrete substrates

A sealer coat of WB Primer shall be at a nominal rate of 0.2Kg/Sq.m. and allowed to dry/cure for a minimum of 4 hours prior to ET Slurry application.

##### b) Steel substrates

No primer is required.

### 3. Mixing

ET Slurry consists of three components: the resin BASE, the CURING AGENT and the FILLER, which are supplied pre-weighed in the correct proportions.

The BASE component shall be poured into the CURING AGENT component, and the two liquids thoroughly mixed preferably by mechanical means.

The FILLER shall be added to the mixed liquid, and blended until a uniform consistency has been achieved. An electric drill with paddle attachment, or a forced action mortar mixer, will be suitable for the blending operation.

### 4. Application

The mixed ET Slurry shall be poured onto the prepared surface and spread out with a serrated trowel or steel float to a thickness of 2-4 mm, as required. The material may be spike rolled, as necessary, but this will not usually be required when an aggregate broadcast is to be made.

When a non-slip finish is required, an appropriate aggregate (such as J-Blast supafine, Calcined Bauxite or graded Silica sand) should be broadcast at a nominal rate of 6 - 12 Kg/Sq.m.

Where a non-skid finish is required, J-Blast standard grade should be broadcast at a nominal rate of 6 - 12 Kg/Sq.m. The following day, all excess aggregate may be swept from the floor surface.

### 5. Equipment Cleaning

Clean all equipment immediately after use with Toolclean.

### 6. Curing

The floor may be opened to light foot traffic after 4 hours cure @ 20C, and to vehicular traffic following 16 hours cure @ 20C.

NOTE: Lower ambient and substrate temperatures will result in extended curing times.

### 7. Packaging

ET Slurry is supplied in 30 Kg packs.

### 8. Coverage

A 30 Kg pack is sufficient to cover an area of 5.4 Sq.m. at a thickness of 3mm.

NOTE: The thickness of the overall system will be dependent on the type and quantity of aggregate used to "blind" the surface.

### 9. Storage and Shelf Life

Store in dry conditions, out of direct sunlight, and in a frost-free area. ET Slurry has a minimum shelf life of 12 months when stored in original unopened containers in accordance with the manufacturers instructions.

### 10. Limitations

Do not apply to wet or uncured concrete.

Do not apply at temperatures below 3C.

### 11. Health and Safety

Avoid contact with skin and eyes. Wear appropriate gloves, overalls, and eye protection during use. Wash off with soap and water if the material comes into contact with the skin. Any eye contamination must be rapidly irrigated with copious amounts of clean water, and immediate medical attention sought.

Please refer to the Material Safety Data Sheet before use.

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### Characteristics for ET Slurry

#### 1. Material Function

As a slip resistant wearing course and waterproofing membrane for concrete and steel footbridge, ramps, stairs, loading bays, roadways etc.

#### 2. Material description and specification

##### a) Priming

- i) Concrete surfaces shall be primed and sealed with WB Primer, water based epoxy primer which has a tensile strength in excess of 5N/mm<sup>2</sup> (ie. Greater than that of the concrete itself)
- ii) Steel surfaces do not normally need priming. However, where a delay is anticipated between grit blasting and the application of the ET Slurry, a proprietary anti-corrosive holding primer, such as Steelprime, should be applied to obviate the possibility of flash rusting.

- b) ET Slurry shall be applied in accordance with the manufacturers instructions and shall have the following properties:

Solids content	100%
Compressive Strength	Typically 30N/mm <sup>2</sup>
Flexural Strength	Typically 25N/mm <sup>2</sup>
Tensile Strength	Typically 30N/mm <sup>2</sup>
Elongation at break	4%
E Modulus	2700N/mm <sup>2</sup>

#### **Adhesion to:**

Concrete:	greater than the tensile strength of concrete
Grit Blasted Steel:	Typically 8N/mm <sup>2</sup>

Following application of the resin slurry, an appropriate dressing aggregate shall be broadcast.

Type of Traffic	Typical thickness of ET Slurry	Dressing Aggregate Type and Grading	Gross Aggregate Rate
Light/standard pedestrian	2-3mm	Dynagrip 1.4 – 2mm	10 – 12kg/sq metre
Heavy duty pedestrian	3mm	Dynagrip 1 – 3mm	12kg/sq metre
Road traffic	4mm	Dynagrip 3 – 5mm	15kg/sq metre

##### c) Dynagrip Aggregate:

Dynagrip physical properties as determined by BS812:

Polished stone value:	70
Aggregate abrasion value:	1.9
Aggregate impact value:	8.0
Aggregate crushing value:	8.2
10% fines value:	565kN

Hardness:	9 (Mohs scale)
Colour:	Dark Grey

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