



## Truegrip BT & EP

### High Friction Anti-skid Resin Surfacing

#### USES

Truegrip BT & EP are High Friction surfacing systems meeting the demanding requirements of a BBA/HAPAS Type 1 approved anti-skid surfacing for external applications. Truegrip BT & EP can be hand or machine applied and are ideal for surfacing Highways with either bituminous or concrete surfaces. These systems minimise the risk of skids on areas such as; sharp bends, approaches to and across major junctions, gradients, roundabouts, traffic signals, pedestrian crossings and railway level crossings.

#### DESCRIPTION

Truegrip BT & EP are two pack epoxy resin based surfacing systems, which are broadcast with a specially selected refractory PSV 70 grade Calcined Bauxite aggregate (1-3mm for road grade).

#### ADVANTAGES

<b>Anti-skid</b>	High friction anti-slip finish
<b>Epoxy resin based</b>	Excellent adhesion onto a range of substrates including bituminous surfaces, asphalt and concrete.
<b>Fast cure</b>	Ready to receive vehicular traffic within hours
<b>Durable</b>	Abrasion resistant and resistant to petrol, diesel, chemicals & salt

#### PHYSICAL PROPERTIES

<b>Tensile strength</b> (7 day cure)	10.5 N/mm <sup>2</sup>
<b>Elongation</b> (7 day cure)	> 30%
<b>Specific gravity</b> (resin binder only)	1.16
<b>Pot life</b>	20 minutes
<b>Cure time</b>	2 - 4 hours
<b>Full cure</b>	7 days

(Below 20°C these times will be increased)

#### DURABILITY

Truegrip BT & EP should have a service life of between 5 and 10 years depending on traffic levels.



#### CHEMICAL RESISTANCE

Truegrip BT & EP is resistant to a wide range of chemicals. Specific data is available on request.

#### COLOURS

Truegrip BT & EP are single colour materials however different coloured Calcined Bauxite aggregates may be used to achieve variety.

#### TEMPERATURE

Truegrip BT & EP should not be applied at temperatures below 5°C. Substrate temperatures should be 5°C to 35°C. The appearance, but not performance of the system, may be affected by adverse weather conditions on application. Refer to Conren for advice.

#### INSTRUCTIONS FOR USE

##### SURFACE PREPARATION

Ensure that all surfaces are clean, dry, sound and are free from ice, frost, loose aggregate, oil, grease, road salt and other loose matter likely to impair adhesion. Manholes, drain gratings, road markings etc. should be masked to prevent contamination. Friable surfaces should be primed with a suitable primer, please refer to Conren for advice. The road surface should be inspected for texture to ensure it meets the relevant BBA/HAPAS criteria.

##### MIXING AND APPLICATION

Truegrip BT & EP are supplied in matched component packs. For machine application, the bulk containers may be transferred to bulk storage vessels located on the application vehicle or used directly from the delivery containers using suitable equipment. The material is heated to 55°C (± 5°C) and mixed by a metered machine that continuously batches and intimately mixes the components together. For application by hand, Handlay BT & EP components should be pre-weighed at a 50:50 ratio and mixed until homogeneous with a slow speed drill with a helical stirrer.

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## MIXING AND APPLICATION CONT.....

The mixed BT or EP can be applied to the surface by spray, lance, brush or squeegee. Care should be taken to ensure a uniform and even application is obtained. As soon as the mixed resin is evenly spread, the refractory grade Calcined Bauxite aggregate must be scattered liberally over the surface so that no coating is visible. If the coating is seen to rise through the aggregate, further aggregate should be spread so that any wet patches are covered with an excess of aggregate. **Finishing:** All masking tape should be removed. If the freshly applied surface must be crossed before cure has occurred, spiked shoes should be worn to prevent disturbance of the surface. As soon as the resin system is solid to the touch, excess aggregate can be removed by vacuum sweeper or careful sweeping. Care should be taken not to commence brushing prematurely, as this will spoil the finished appearance. For full technical specification and application instructions refer to BBA Certificate No. 00/H035. To meet the criteria of BBA/HAPAS Type 1 anti-skid, the system must be installed by a BBA Approved Installer – please contact Conren for details.

### COVERAGE AND PACK SIZES

#### Pack Size

[mix ratio Component A / Component B = 1:1]

40 kg [ 20 kg Part A : 20 kg Part B]  
2000 kg [1000 kg Part A : 1000 kg Part B]

**Hot Applied** – suitable for machine application to bituminous surfaces

**Handlay BT** – suitable for hand mixing and laying on bituminous surfaces

**Handlay EP** – suitable for hand mixing and laying on Concrete surfaces

**Coverage** Not less than 1.35 kg/m<sup>2</sup>

(Coverage is dependent on surface texture and porosity)

### PRECAUTIONS

**Truegrip BT & EP** are non flammable products. Truegrip BT & EP should not be allowed to come into contact with skin and eyes or be swallowed. Epoxy resins and hardeners may act as skin sensitisers to some people. Gloves, goggles and barrier cream should therefore be used. In the event that mixed resin comes in contact with the skin it must be removed before it hardens with a good quality resin removing cream followed by washing with soap and water. Do not use solvent. If accidental eye contamination occurs irrigate with copious quantities of clean water and seek medical advice. If ingestion of any of the materials takes place, seek medical attention immediately. Do not induce vomiting. Refer to Safety Data sheet.

### STORAGE

Shelf life is at least 6 months if stored in original containers between 10°C and 25°C.

### DISPOSAL

All tools and equipment should be cleaned with Conren Solvent Cleaner immediately after use. Spillage should be absorbed with sand and sawdust and disposed of in accordance with local regulations.

## TECHNICAL SERVICE & QUALITY ASSURANCE

All information provided in this leaflet is based on results obtained from our own experience and test and is given in good faith. The user will be deemed to have satisfied himself independently of the suitability of Conren's products for his own particular purpose. We guarantee to replace, free of charge, any goods supplied by us which are proved to our satisfaction defective, but, as the application of these materials is necessarily beyond our control, we will not accept responsibility for any damage or loss arising wholly or in part from these materials. Except as herein provided, any express or implied condition, warranty, statement or representation, statutory or otherwise as to the quality of the goods is expressly excluded.

### SPECIFICATION

BBA/HAPAS Approved Type 1 Anti-skid High Friction epoxy resin surface coating should be Truegrip BT (or EP) manufactured by:

All products to be applied in accordance with Conren's written instructions.

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