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# PRODUCT SPECIFICATION

## KEYGRIP THERMOPLASTIC TYPE THREE

### BBA CERTIFICATE NUMBER 00/H044

#### Description

Key Grip Thermoplastic is a hand laid anti skid system. It consists of a blend of tall oil rosin esters plasticised with mineral oil, elastomeric rubbers, fillers and high PSV aggregates.

Key Grip can be pigmented to any colour required for use as a traffic calming measure.

KeyGrip Thermoplastic Anti-skid has been assessed under the Highways Agency Product Approval Scheme and been granted Road and Bridges Agrément Certificate No 00/H044 for Type Three Surfaces.

#### Performance

When measured by the portable skid resistance tester (TRL Road Note 27 Pendulum Method) the minimum initial value is 65 plus. When measured by a mobile (vehicle mounted) skid tester (scrim or equivalent). The minimum initial value is 0.65 plus.

When measured by a mobile (vehicle mounted) skid resistant tester (scrim or equivalent) the minimum initial value of 65 plus.

#### Areas of Use

Areas where Key Grip can be applied are approaches to pelican crossings, traffic lights and areas where there have been a high incident of accidents.

#### Aggregates

The most commonly used high PSV Aggregates are Guyanan or Chinese Bauxite, which gives PSV's in the range of 70 – 75. Guyanan is grey in colour and Chinese is buff. Thermoplastic Key Grip can be pigmented to any colour.

#### Physical Properties of Binder

Properties	Specification	Test Method
Softening Point Ring and Ball	95°C Minimum	BS 2000 Part 58: 1993
Flow Resistance @ 60°C	1mm Maximum	Trustseal 002
Flexibility	No surface cracking or crazing	Trustseal 004

  

Grading of Keygrip Aggregates						
BS Sieve	4.75 mm	3.35 mm	2.36 mm	1.18 mm	600 um	75 um
% Passing	100	100-75	75-40	40-15	20-10	10-0



MANUFACTURERS OF  
KEYGRIP EPOXY TYPE ONE HIGH FRICTION SURFACING  
KEYGRIP THERMOPLASTIC TYPE ONE AND TYPE THREE HIGH FRICTION SURFACING  
COLOURED TRAFFIC CALMING PRODUCTS : JOINT AND OVERBAND SEALANTS  
INSTALLERS OF  
ANTI-SKID SURFACING : TRAFFIC CALMING CYCLE LANES ETC  
REFLECTIVE CRACKING TREATMENTS : ASPHALT AND CONCRETE REPAIR

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### End Performance

The surface treatment work carried out at each site shall be deemed acceptable if the minimum standards of performance are achieved and maintained during the following twenty-four months. Performance in this respect shall be monitored by the engineer and evaluated in terms of "exposed aggregate retention". This shall be assessed initially by visual inspection and requires the absence of limitation of various possible defects defined as follows.

### Aggregate Loss

Any area shall be regarded as having stripped to an unacceptable standard where 5% or more of the exposed surface particles have been lost from the original continuous pattern.

### Loss of Adhesion

Any area where 5% or more of the matrix/binder film has lost adhesion to the original road surface within the works.

### Total Abrasion Loss

Gradual abrasion of the matrix and /or aggregate is permissible within the service life of the material, provided that a continuous pattern of aggregate is exposed throughout the surface at all times. Any area where 5% or more of the underlying binder or original road surface is visible shall be defined as "total abrasion loss".

### Aggregate Embedment

The criteria for embedment shall be defined in terms of the macrotexture, measured by the sand patch test in accordance with BS 598 Part 105. The number of individual measurements shall be decided by the engineer as appropriate to the size of the area under construction, but shall not be less than one measurement for any single dispute. Any area where 5% of the values fall below 0.95 mm shall be regarded as unacceptable. Remedial works shall be carried out to areas of the surface treatment, which fail to comply with the above.

### Quality Assurance

All our materials are tested under the control of a quality assurance system to BS/EN/ISO 9002 and certificates of conformity issued when requested.

### Coverage Rate

Key Grip	85 m <sup>2</sup> /tonne depending on rugosity of the road surface.
Packaging	25 Kg Bags.

### Health and Safety

At ambient temperatures Key Grip presents no acute health hazards. These materials are laid when hot. The greatest hazard is due to burns. Wear suitable protective clothing. For other information refer to Health and Safety Data Sheets.

### Other Information

The conditions or methods of handling, storage, use or disposal of the product is beyond our control and may be beyond our knowledge. For these and other reasons, we do not assume responsibility and expressly disclaim liability for loss damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.