

Product Description

TekGrip DSR is a three-component, liquid, polyurea system specially formulated for decorative surfacing and binding applications.

TekGrip DSR passes the Highways Agency scuffing test to Type 1 and can be used at ambient temperatures from 0°C up to 25°C. When applied correctly TekGrip DSR is expected to have a lifespan equal to or greater than that of the surface to which it is applied.

Typical Applications

When cured, TekGrip DSR has excellent adhesion to bituminous, cementitious, wood and metal surfaces and most aggregates. TekGrip DSR displays outstanding performance on concrete surfaces where, as with the other surfaces above, no primer is necessary. TekGrip DSR will adhere to damp or uncured concrete (over 14 days old).

Aggregate

Applied correctly TekGrip DSR will hold approximately 6.000kg of 3mm aggregate per m² however aggregate requirement should be based on 8.000kg to 10.000kg per m² with 2.000kg to 4.000kg being recovered from sweeping when the product has fully cured.

Packaging & mix ratio

TekGrip DSR is supplied as a 20kg, three components Kit:
A - 20Ltr bucket containing 14.200kg coloured liquid.
B - 2.5Ltr Jerry containing 2.700kg clear/white liquid.
C - 2.5Ltr Jerry containing 3.100kg amber liquid.

Handling & storage

Parts A and B should be stored in covered areas between 5-25°C. Part C should be stored in dry conditions between 15°C and 25°C. Under these conditions the shelf life of the products is 6 months for part A and 12 months for parts B and C.

- ▶ Part 'A'- Classified as irritant
- ▶ Part 'B'- Classified as non-hazardous.
- ▶ Part 'C'- Classified as harmful by inhalation

Good standards of industrial hygiene should be observed when handling all components. The use of protective gloves is highly recommended and users should consider the use of goggles if splashing during mixing is a possibility. The recommendations made in the material safety data sheet for this product should be observed at all times. Part C contains 4,4'-diphenyl-methanediisocyanate and the advice contained in the TekGrip DSR material safety data sheet for this component is of particular importance.

Application Method

TekGrip DSR can be used at ambient temperatures from 0°C up to 25°C. In ambient temperatures from 20°C up to 35°C the user should give serious consideration to the use of TekGrip DD2.

If the surface to be treated is 'Blacktop' and is a decorative surface, rather than a high friction surface, then the user should give consideration to the use of TekGrip DFX. On applications where the quality of the blacktop is unknown TekGrip DFX should always be used.

Mixing should take place by stirring the 'A' component for one minute, adding the other components and continuing to stir until mixed. Full mixing should take no more than 60 seconds with the correct equipment. Contact Star Uretech Ltd if you require information on suitable mixing equipment.

The mixed material remains in a mobile, liquid form for approximately 20 minutes, after which a light gel is formed (lasting approximately 15 minutes). The material then sets into a soft solid. Excess material can be removed whilst in the gel form.

The material is fit for traffic after 2-8 hours, dependent on the ambient temperature but will increase in properties over a period of a few days. Aggregate should be broadcast into the material in its liquid state. It is vitally important that this is carried out as soon as possible after spreading and certainly within 5 minutes. Aggregate will not adhere properly to semi-cured or cured adhesive.

Do not try to spread the material to more than 10m² per kit. Proper wear characteristics are achieved when the aggregate particles are half-buried into the adhesive and this will not occur if there is not enough depth of adhesive.

Performance

When applied at 1.3 mm and scattered with 6 kg/m² of Chinese bauxite, TekGrip DSR easily passes the Transport Research Laboratory scuffing test for Type 1 surfacing to Report 127 (appendix G). An erosion index of zero (0 best, 30 worst: pass mark ≤ 3) and a texture index of 1.4 (pass mark ≥ 1.2) is obtained. Patent Protected No: 99 211 78.1.

Coverage

Coverage rates will vary with different substrates, aggregates and weather conditions however a typical coverage rate of 7.5m² per 20.000kg Kit is to be expected.

Technical information

	Part A	Part B	Part C
Viscosity @ 25°C (cps)	20000 max	200 max	200 max
Specific Gravity	1.8	1.01	1.21
Colour	Buff	White	Amber
Hardness (Shore D)	65-75		
Compressive strength at first failure (N/mm ²)	20		
Compressive strength at 40% compression (N/mm ²)	45		
Deflection at failure (%)	10		
Compressed cylinder (edge) break (N/mm ²)	6		
Compressed cylinder (edge) crack propagation (N/mm ²)	6		
Compressed cylinder (edge) deflection at break (%)	10		

Disposal

The condition of this product will determine the required method of disposal. Used containers with fully cured product remaining around the edges or bottom of the container should have the hazard label removed or obscured before disposal as general building waste.

Uncured/Liquid product should be disposed of as hazardous waste.

Order detail

The order reference for TekGrip DSR is DSR-020-00-1. A Full pallet consists of 24 x 20kg kits.

Equipment

Mixer- A low speed (300-500rpm), high torque drill & paddle.

Roller- Long reach, medium pile roller or serrated squeegee.

Shovel- Suitable for broadcasting aggregate.

Tape- Scapa tape for edging and protecting areas.

PPE- Gloves, overalls and goggles.

Related documentation

- ▶ TekGrip DSR Safety Data Sheet (GHS)
- ▶ TekGrip DSR Method Statement
- ▶ Architects Manual

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