

Product Description

TekGrip DFX is a three-component, liquid, polyurethane system specially formulated for decorative surfacing applications on blacktop surfaces where the quality fails to conform to 'BS EN 13108 part 1' or is unknown. New blacktop surfaces should have a PEN number of less than 125, be 10mm close graded, well rolled, compacted to conform to 'BS EN 13108 part 1' and allowed to age and oxidise for a minimum of 2 weeks prior to the application of a resin surface.

Typical Applications

When cured, TekGrip DFX has excellent adhesion to bituminous, cementitious, wood and metal surfaces and most aggregates. TekGrip DFX passes the Highways Agency scuffing test to Type 2 and is suitable for all but the most demanding of wear requirements however if a high friction or "Type 1" surface is required then the user should consider the use of TekGrip DSR or TekGrip DD2.

Aggregate

Applied correctly TekGrip DFX 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 DFX is supplied as a 20kg, three components Kit:
A - 20Ltr bucket containing 13.200kg coloured liquid.
B - 5Ltr Jerry containing 3.800kg clear/white liquid.
C - 2.5Ltr Jerry containing 3.000kg amber liquid.

Handling & storage

Parts 'A' and 'B' should be stored in covered areas between 5°C and 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 safety data sheet for this component is of particular importance.

Application Method

TekGrip DFX can be used at ambient temperatures from 3°C up to 25°C and ideally this product should be applied using a three person team.

TekGrip DFX should always be used where the quality of the blacktop is unknown and is usually mixed using a drill and paddle and then spread over the desired surface using a fabric roller, brush or squeegee.

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 onto the material in its liquid state. It is vitally important that this is carried out as soon as possible after spreading and certainly within 10 minutes. Aggregate will not adhere properly to semi-cured or cured adhesive.

Do not try to spread the material to more than 7.5m² 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 1.5mm and scattered with 6kg/m² of 1mm to 3mm Chinese bauxite, Uretech DFX passes the Transport Research Laboratory scuffing test for Type 2 surfacing to Report 127 (appendix G). Type 1 wear characteristics are achieved with 3mm rounded pea gravel.

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	250 max	250 max
Specific Gravity	1.56	1.01	1.21
Colour	Buff	White	Amber
Hardness (Shore D)	50-60		
Compressive strength at first failure (N/mm ²)	8		
Compressive strength at 40% compression (N/mm ²)	25		
Deflection at failure (%)	25		
Compressed cylinder (edge) break (N/mm ²)	3		
Compressed cylinder (edge) crack propagation (N/mm ²)	3		
Compressed cylinder (edge) deflection at break (%)	25		

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 DFX is DFX-020-00-1.
A Full pallet consists of 24 x 20kg kits.
(180m² with 1mm to 3mm aggregate)

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

Contact details

Star Uretech
Enterprise House
Hollin Bridge Street
Blackburn, Lancashire
BB2 4AY

Tel: +44 (0)1254 663444
Fax: +44 (0)1254 681886
Email: info@star-uretech.com
Web: www.star-uretech.com