

Product Description

TekGrip DD2 is a two-component, liquid, polyurethane system specially formulated for decorative surfacing and applications. When cured, TekGrip DD2 has good adhesion to bituminous, cementitious, wood and metal surfaces and to most aggregates or pebbles. TekGrip DD2 has a unique formulation which provides additional working time without affecting its full cure. This makes TekGrip DD2 ideal for applicators which are new to cold applied resin surfacing and also for use in hot weather conditions where other systems may not provide a sufficiently long application time.

Typical Applications

TekGrip DD2 can be used at ambient temperatures from 20°C up to 35°C. TekGrip DSR should be used if the ambient temperature is between 3°C and 20°C. Ideally this product should be applied using a three person team.

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.

Aggregate

Applied correctly TekGrip DD2 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 DD2 is supplied as a 19kg, two components Kit:

- A - 20Ltr bucket containing 13.200kg coloured liquid.
- B - 5Ltr Jerry containing 5.800kg amber liquid.

Handling & storage

Both components should be stored in dry, covered areas between 5°C and 25°C. Stored as stated the product components will have a shelf life of 12 months.

- ▶ Part A *Classified as non-hazardous.*
- ▶ Part B *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 safety data sheet for this product should be observed at all times. Part 'B' contains 4,4'-diphenyl-methanediisocyanate and the advice contained in the safety data sheet for this component is of particular importance.

Application Method

TekGrip DD2 should only be used in perfectly dry conditions and with dry aggregates otherwise excessive foaming will result. In damp conditions TekGrip DSR or TekGrip DFX should be considered. TekGrip DD2 is 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 using a suitable low speed/high torque drill and paddle, to disperse any settlement. Add the other component and continuing to stir until mixed. Full mixing should take no more than 60 seconds with the correct 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 10 minutes. Aggregate will not adhere properly to semi-cured or cured adhesive. For Type 1 approved high friction surfaces, calcined bauxite (1mm-3mm) should be used. For decorative surfaces a rounded aggregate such as pea gravel will give the best wear characteristics.

Do not try to spread TekGrip DD2 to more than 9m² per kit. The correct wear characteristics are achieved only 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 1.3mm and scattered with 6kg/m² of Chinese bauxite, TekGrip DD2 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.

Coverage

Coverage rates will vary with different substrates, aggregates and weather conditions however a typical coverage rate of 9m² per 20.000kg Kit is to be expected.

Technical information

	Part A	Part B
Viscosity @ 25°C (cps)	20000 max	250 max
Specific Gravity	1.3	1.21
Colour	Buff	Amber
Hardness (Shore D)	60-65	
Tensile Strength (N/mm ²)	9-12	
Elongation @ break (%)	100+	
Young's Modulus (N/mm ²)	~30	

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 DD2 is DD2-019-00-1.
A Full pallet consists of 24 x 19kg kits.
(215m² 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 DD2 Safety Data Sheet (GHS)
- ▶ TekGrip DD2 Method Statement
- ▶ Architects Manual

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