

Plastipur® TG69

Polyurethane screed, 6-9 mm thickness

Characteristics:

Plastipur® TG69 is a trowel applied water-based polyurethane resin floor screed designed to provide excellent heavy duty usage with resistance to thermal shock, abrasion and chemical attack in aggressive industrial environments. Plastipur® TG69 surfaces are stable to steam cleaning and resistant to boiling water and process liquids up to 120oC when applied at 9mm nominal thickness. A matt, textured surface is provided that is seamless with anti-slip properties.

Advantages:

- High chemical resistance
- Resistant to hot water & steam water
- Self levelling
- Excellent slip resistant finish
- Matt finish
- Food safe & non taint (Camden BRI approved)
- Extremely hard wearing

Industry application:

- Food manufacture & processing
- Brewing & beverage
- Dairies
- Commercial kitchens
- Pharmaceutical & chemical plant processing
- Abattoirs and meat processing
- Heavy duty plant and traffic areas

Product Information

System Thickness (dry)	Solids content by weight	Pack sizes	Packaging	Shelf life	Storage
6mm to 9mm	100 %	30 kg.	1 X Base 1 X Hardener 1 X Aggregate bag	36 Months (Base) 12 Months (Hardener) 3 Months (Aggregates)	Keep out of direct sunlight. Store in a dry place, not below 15°C

Drying Times & Coverage Rates at 20°C

Coverage rate	Pot life	Recoat time	Light traffic	Full traffic	Full chemical cure
30 kg. will cover 2.35 m ² at 6mm Or 1.57 m ² at 9mm	15 minutes (From Mixing)	N/A	12 -16 Hours	48 Hours	3 -5 Days

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Specifications

Product : Plastipur® TG69

Finish : Textured, Matt

Thickness : 6mm to 9mm

Colour : See Plastipur® Colour Chart

Method BS7976 pt1-3:2002

Products required for this system

Primer: Plastipur® Primer/M

System: Plastipur® TG69 at required Thickness

Surface Seal : Not required

NB: All polyurethane systems based on MDI will yellow with time this is a surface discolouration under the effect of UV light and does not in any way affect the durability of the floor finish. Darker colours will not show this effect as much as light colours.

Preparation

To achieve the best performance from Plastipur® TG69 , correct surface preparation is essential. Substrates must be clean, sound, dry and free of surface laitance with a minimum strength of 25N/mm².

All surfaces must be prepared by vacuum blasting or mechanical grinding. Fats oils or greases must be removed by mechanical means and detergent is washed and removed by rinsing with clean water.

Existing Floors

All previous coatings and loose floor paints must be removed by mechanical preparation as described above and primed. Plastipur® TG69 may be applied to substrates with a surface temperature in the range of 5-20°C and a relative humidity < 90% RH , with a minimum air temperature of 8°C and no condensation. Do not pre-warm this product as working times will be substantially reduced if materials are warm.

To ensure the maximum bond is achieved, grooves must be cut into the perimeter of the subfloor, typically 20mm deep by 8mm wide. These should be inset approximately 150mm from, and running parallel with the walls and adjacent to any doorways, plinths etc. including any finished edge, i.e. both sides of a day work joint. The groove must have a neat square edge and the Plastipur® TG69 laid to the full depth forming a perimeter anchorage.

Category Guide

FeRFA Category : 8

Technical Information

The following figures are obtained from laboratory tests and our experience with this product .

Slip Resistance Dry > 50, low slip potential

Wet > 45, low slip potential

The slip resistance of a floor surface can vary as a result of the installation process, conditions at the time of application and subsequent traffic. Inappropriate cleaning or maintenance can adversely affect the performance. For further advice on potential wet areas please consult PCV.

Abrasion Resistance Average Depth of Wear (mm) 0.04

Temperature Resistance Tolerant of sustained temperatures of up to 120°C @ 9mm

Chemical Resistance Excellent Chemical Resistance Consult PCV on specific materials

Compressive Strength 60 N/mm²

Flexural Strength 14 N/mm²

Tensile Strength 6 N/mm²

Reaction to fire classification B_{FL} - S₁
EN 13501-1:2007+A1:2009

VOC 9 g/l calculation
 based on fully mixed unit

CE	
Plasti Chemie Vertriebsgesellschaft mbH Falgardring 1, 08223 Falkenstein Germany	
BSEN 13813 SRB3.3-AR0.5-IR>4	
Resin coating/screed for use inside buildings as per PCV data sheet	
Wear resistance:	AR 0.5
Bond strength:	B 3.3
Impact resistance:	IR > 4

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Priming

Surfaces should be primed with Plastipur® Primer at an average rate of 4 m². per kg. This is left to cure, usually overnight. If the relative humidity of the concrete is greater than 75% RH PC Plastipur® Primer M should be applied at 4 m². per kg. allow to cure for 8-12 hours @ 20°C.

Application

When the primed surface is tack free Plastipur® TG69 should be applied at the required rate as soon after mixing as possible. (Delay can result in variation in surface finish, colour and add to application problems.

Mix the colored base component to an even consistency, ensuring the re-dispersion of any settled pigment, Thoroughly scrape the contents of the base and hardener components into the same container and mix thoroughly for one minute. Pour the combined base and hardener into a rotary drum mixer and add the aggregate component steadily, until a homogeneous mix of the three components is achieved. Apply to pre-primed areas and level between battens as necessary with a steel float, alternatively a sledge can be used set at the required thickness and again finished with a steel float. Where ease of cleaning is very important alongside slip resistance the final finish can be smoothed by back rolling with a short nap roller. A single pass with the weight of the roller is usually sufficient.

Plastipur® units should be applied consistently with mixes from the same batch used consecutively where adjacent areas are being laid.

NB: Cure times are extended at low temperatures.

Maintenance and Cleaning

PCV recommend that Plastipur® TG69 should be cleaned with a regular industrial cleaning regime with a floor scrubber utilising PC Industrial Floor Cleaner or similar with dirty water being removed. Isolated localised cleaning can be carried out using PC Tyre Mark Remover, PC Fats & Grease Remover & PC Oil Remover.

All surfaces should be thoroughly rinsed with clean water after the use of chemical cleaners.

Please refer to the PCV Guide to Cleaning of Resin Floors

Health and Safety

Plastipur® TG69 is formulated from materials designed to achieve the highest level of performance as safely as possible. However, specific components require proper handling and suitable equipment, this information is given in the relevant safety data sheets. In all cases, spillages or skin contamination should be cleaned as soon as practically possible, by dry wiping of the affected area, and thorough washing with soap and water.

The information given in this data sheet is derived from tests and experience with the products and is believed to be reliable. The information is offered without guarantee to enable purchasers to determine for themselves the suitability of the product for their particular application. Any specification or advice given by Plasti Chemie or its agents is based on the information supplied by the purchaser. Plasti Chemie cannot be held accountable for errors or omissions as a result of that information being incorrect or incomplete. No undertakings can be given against infringement of patents. Some materials are derived from natural sources. As such some variation may occur. Site conditions may also contribute to variation in finish and colour.