



Technical Datasheet
Polyurethane Floor Seal

PUMAGRIP HD

DESCRIPTION

Pumagrip HD is a heavy duty solvent free flow applied binder system designed for the incorporation of skid resistant aggregate within its surface to provide a high durability slip resistant surface for treads and walkways.

COMPOSITION

Solvent free pigmented polyurethane resin system with graded aggregate.

APPEARANCE

Smooth glossy surface incorporating skid resistant grit/aggregate

DURABILITY

Excellent long term resistances to abrasion, impact and chemical spillage.

THICKNESS

Nominal 2mm (excluding aggregate profile)

TYPICAL INSTALLATIONS

Roads:

approaches to traffic lights and roundabouts, motorway deceleration lanes etc.

Wet process areas:

Machine shops, floor process areas, oil rig platforms.

Pedestrian Walkways:

Industrial tank farms, animal pens, airport walkways

Parking zones:

Turning circles and braking zones at junctions.

SUBSTRATES

Tarmac, concrete, grano, wood, asphalt.

SURFACE PREPARATION

To be assured of maximum adhesion and properties from Resdev resin products, the correct surface preparation is essential. Please refer to technical data sheet "Surface Preparation" reference TD102.

APPLICATION CONDITIONS

5°C – 25°C. Ideally 20°C. If possible protect from adverse weather conditions during early cure stages.

PRIMING

Usually no priming will be necessary but on particularly porous surfaces (wood, concrete, grano) a pre-treatment with Pumaprime SF is recommended. Please refer to technical data sheet reference TD002.

MIXING

All materials are provided in pre-proportioned 25kg units. Mixing of part units is not recommended due to the possibility of proportioning errors. Mixing of the resin component is recommended before mixing the two liquid components. Mix both liquid components together for a minimum of two minutes or until a homogeneous mix is obtained, finally adding the powder component in stages.

APPLICATION TECHNIQUE

Apply by pouring over large areas finally spreading to a nominal 2mm build with a steel float. Smaller areas or strip coating may be applied liberally by paint brush. Levelling and debubbling of large areas may be aided by the use of a Resdev spiked roller. As soon as possible after application of the coating, graded aggregate may be cast over the surface at the required density. The choice of aggregate size should be restricted between 1.5-4mm. This will provide a wide choice of textures from light to heavy duty. The type or choice of aggregate used can vary but consideration should be given to the durability factor. Typical types would include:- Calcined bauxite, flintag, granite chips, reclaimed carborundum, silicon carbide or ground coconut shell.

COVERAGE RATES

At 2mm (1.5-2.5mm) - 7.5m²/25kg

SPECIFICATION DETAIL

1 coat Pumagrip HD

1 scatter of Aggregate to desired texture.

MAINTENANCE

High pressure washing aided by light brushing will reduce build up of dirt and process materials. Resistant to most industrial cleaning solutions. In heavy duty situations where dirt build up is problematic combined with regular washing down processes, an additional seal coat of Pumaflex 500 may be applied after the aggregate has been incorporated. Please see technical data sheet TD025.

CURE SCHEDULE

Initial film set time at 20° C	-30 minutes
Cure to light foot traffic at 20° C	-2 hours
Cure to heavy duty traffic at 20° C	-4 hours
Full cure to chemical resistance at 20° C	-4 days
Pot life of full 25kg mix at 20°C	-10-15 mins

CHEMICAL RESISTANCE

Excellent resistances to a wide range of industrial chemicals and cleaning agents. Please refer to technical data sheet reference TD115.

COLOURS AVAILABLE

Available as an opaque grey finish only.

TECHNICAL DATA

Compressive Strength	-	37-42N/mm ²
Flexural strength	-	35-40N/mm ²
Slant shear bond strength	-	30N/mm ²
Abrasion resistance (binder only)	-	3mg loss/1000 cycles at 1kg load with CS17 wheels.

	WET	DRY
Skid resistant (binder only)	40-48	80-90
RRL pendulum		
"Tortus" tester	0.6-0.7	0.5
Coefficient of friction	0.45	0.85

Slip resistant factors have been quoted for the resin system only as differing sizes and types of aggregate will cause significant variation in values and in the instance of highly profiled applications, testing will not be possible.

HEALTH AND SAFETY

Please read the relevant technical data sheet and specific health and safety data for this product provided in compliance with the requirements of EC Directive 91/155.

STORAGE, MIXING & APPLICATION

The storage, mixing and application conditions can affect the quality of the finish produced. Please read technical data sheet reference TD104.

TECHNICAL ADVICE

For further information on this or any other Resdev product, please contact our Customer Care Department