

INSTAPRUF SELF SMOOTHING FLOOR TOPPING

INTRODUCTION

INSTAPRUF is a two pack; polymer modified, cementitious based, water resistant, hard wearing, self-smoothing seamless floor topping

COMPONENTS & APPEARANCE

A unit of **INSTAPRUF** consists of a 25kg bag of powder (sand, cement, admixtures etc) and sufficient liquid to achieve a smooth paste-like pourable mix. The floor when set has a smooth finish of greyish appearance. A fine 'orange peel' texture and aggregate close to the surface maintains a non-slip surface.

QUALITY ASSURANCE

INSTAPRUF is a Quality Assured product produced to BS EN ISO 9001:2000.

USES	BENEFITS
<p>Provides high quality floor topping for internal and exterior surfaces To produce abrasion resistant wearing surface As a water resistant barrier Repair and refurbishment of existing floors in both internal or external environments Heavy duty loading areas</p>	<p>Continuous, seamless floor Self smoothing Long open 'working time' High water and abrasion resistance Non slip finish 5-15mm thickness possible</p>

TYPICAL TECHNICAL DATA

Compressive strength N/mm ²	28 days	45
Tensile strength N/mm ²	28 days	7
Flexural strength N/mm ²	28 days	12
Adhesive strength to concrete N/mm ²	14 days	> 2
Density (air dry) kg/m ³		2100

Typical performance on concrete with cement content of 325 kg/m³ and w/c ratio of 0.48

	Concrete untreated	INSTAPRUF treated
Water Sorptivity rate of water transmission G/m ² /min ⁻¹	35.61	0.11
Water Permeability rate of water transmission G/m ² /hr ¹	45.1	<1.3

Independent Test Data: Concrete Durability Group, Department of Civil Engineering, Imperial College of Science, Technology and Medicine, LONDON, SW7 2BU

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YIELD

1 complete pack of **INSTAPRUF** will produce 0.0135m³ of material. The areas below can be laid using one complete pack of **INSTAPRUF** at a range of thickness. Allow approx. 2m² per pack at 6mm thick. [5mm = 2.70m², 10mm = 1.35m², 13.5mm = 1m², 15mm = 0.9m²]

MIXING INSTRUCTIONS

INSTAPRUF is a two-part system, only mix powder to liquid in the correct proportions, to achieve required workability. Place the liquid component (3½-4 litres) in a suitable mixing vessel and add the complete amount of **INSTAPRUF** powder (25kg), mix until homogeneous to a pourable, soft paste consistency. Note: too much liquid will cause the mix to bleed when wet and to crack and de-bond on drying. **INSTAPRUF** should be mixed using a hand held slow start variable speed mixer and spiral paddle, ideally a twin paddle megamixer or similar. For large areas, 500m² or more, use a mixer pump delivering 3 tonnes of mixed **INSTAPRUF** per hour. Free fall, revolving drum mixers should not be used. **INSTAPRUF** is not suitable for mixing by hand. Do not add additional sand, cement or other ingredients.

APPLICATION & PREPARATION

Ensure all stages of use are carried out in accordance with BS 8204 Part 3. Good surface preparation is essential. All substrates should be mechanically sound and free of surface contaminants. Smooth and dense surfaces must be mechanically abraded by scabbling or shot blasting to provide a mechanical key. All dust and loose material must be vacuumed off prior to application of **INSTAPRUF**. Fix any edge strips, battens, expansion and other joints and level out.

PRIMING AND PLACING

Porous substrates must be dampened out with clean water, and a bonding coat of **INSTACEM PRIMER LATEX** applied. While the primer is still 'tacky' (but not wet) mix and apply **INSTAPRUF**. Very porous surfaces may require an additional priming coat. Apply **INSTAPRUF** to the required thickness to the primed area within 30 minutes. Finish the floor surface to the required smoothness using a suitable pin leveller and spiked roller.

INSTAPRUF has an open time of approximately 30 minutes at 20°C. To make the finished surface easier to clean (e.g. oil, paint, coffee stains etc) apply another coat of **INSTACEM PRIMER LATEX** to act as a sealer.

MINIMUM THICKNESS

INSTAPRUF can be placed to thickness within the range 5-15mm, dependent on the end use requirements of the topping. Further advice can be obtained from our Technical Department.

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DRYING OUT

INSTAPRUF should be left in a draught-free condition for 24 hours.

JOINTS

Contraction and expansion joints should be aligned with respective joints in the concrete base. Construction joints should be aligned to construction joints in the concrete base if the latter are expected to open excessively and cause cracking detrimental to the floor use. Isolation joints should be positioned around the perimeters of the slab and around columns, fixed bases and other protrusions.

HEALTH AND SAFETY

INSTAPRUF is alkaline and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing. Gloves, goggles and dust masks should be worn. Splashes to eyes should be washed immediately with clean water and medical advice sought.

PACKAGING AND SHELF LIFE

INSTAPRUF is supplied as a two component product comprising 25kg bags **INSTAPRUF** powder and **INSTAPRUF** liquid. The liquid component must be stored between 5-35°C. Once frozen the liquid becomes unusable.