ARDEX R 73 P

Self-Smoothing Polyurethane Screed

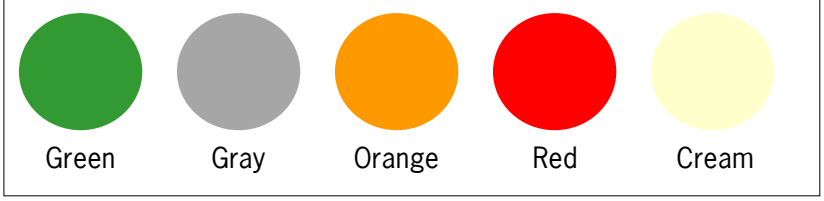
HIGH PERFORMANCE, POLYURETHANE RESIN FLOORING SYSTEM, SUPPLIED AS FOUR COMPONENTS IN PRE-MEASURED PACKS FOR EASE OF ON SITE MIXING AND USE. THE CURED SYSTEM FORMS A TOUGH, EASILY CLEANED, PIGMENTED LAYER

Hard wearing - extremely durable and abrasion resistant with low maintenance costs

Resistant to a wide range of chemicals and liquids

Seamless - easily cleaned to maintain high standards of hygiene

Available in a range of colors



Due to printing process, colors can only be approximate

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DESCRIPTION

Specialist applied, polyurethane resin floor finish, combining outstanding wearing properties with high chemical resistance and pleasing decorative properties. Ideally suited in aggressive areas where a seamless, joint free finish is required. Factories with medium traffic areas are just some of the environments that can benefit from the tough chemically resistant system.

SUBSTRATE PREPARATION

The concrete or screed substrate must be hard, sound and free of dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, adhesive residues, etc., that will inhibit adhesion to the substrate. Remove polish, wax, grease, oil and similar contaminating substances prior to mechanical preparation. Contaminated concrete surfaces should be mechanically prepared, either by scrabbling, grinding or contained shot blasting equipment or similar, and be vacuumed clean prior to applying ARDEX R 73 P Self-Smoothing Polyurethane Screed. Overwatered or otherwise weak concrete surfaces must also be suitably prepared down to sound, solid concrete by mechanical methods. Dust and other debris should be removed using vacuum equipment.

NOTE: Any joints or cracks in the concrete base where differential movement is anticipated e.g. movement joints, should be brought through to the finished surface and suitably sealed. New concrete slabs must be allowed to cure for at least 14 days.

To ensure maximum bond, grooves must be cut into the perimeter of the sub-floor, typically 8mm deep by 8mm wide. These should be inset approximately 100mm from and running parallel with, the walls and adjacent to doorways and plinths, etc., including any finishing edges and day joints. The grooves must have clean, square edges and the product laid into the full depth of the groove forming a perimeter anchorage. Grooves should surround areas not exceeding 20m².

STEEL PLATES

Steel decking must be clean, sound and properly supported to prevent flexing. Deck plate of less than 4mm thick is not recommended. Surfaces should be shot blasted to SA2.5 and primed using ARDEX R 3 E Solvent Free Epoxy Primer.

PRIMING

All appropriate substrates to receive ARDEX R 3 E Self-Smoothing Polyurethane Screed must first be primed with ARDEX R 3 E Solvent Free Epoxy Primer. One or more coats of primer may be required depending upon the condition and porosity of the concrete substrate. The final coat of ARDEX R 3 E primer may be seeded with ARDEX Fine Aggregate to aid application.

MIXING

Part A and Part B Resin Components of ARDEX R73P Self-Smoothing Polyurethane Screed must first be mixed together for 1 minute, using forced action, in a suitably sized mixing vessel. The contents of Part C, the powder component and pigment sachet should then be introduced into the mixed resin and mixed together for a further 2 minutes to create one homogeneous mix. One or more packs may be mixed at the same time in order to maintain a quick rate of installation.

INSALLATION

For flooring applications, the mixed material should be applied to the prepared and primed surface between 8 and 24 hours after priming, using a trowel to achieve the desired thickness. As soon as the product has been laid and as work progresses, the surface should be gently rolled with a spiked roller in order to provide an even surface appearance. Do not re-roll later. The work area should be protected during the installation process and during the initial curing time to ensure that no airborne debris can contaminate the surface of the wet resin as this will lead to unwanted blemishes in the hardened, cured surface.

All movement joints in the sub-floor must be carried through the topping and properly sealed. Construction joints and cracks not subject to movement may be overlaid but should the floor move in any way, these defects will reflect through the system. Isolation joints will need to be allowed for in areas where high thermal movement is anticipated, e.g. around ovens and freezers.

LIMITATIONS

ARDEX R 73 P Self-Smoothing Polyurethane Screed should only be applied at temperatures above 5°C and where the atmospheric relative humidity (RH) is 90% or below. Floors should have a RH of 75% or less. For floors with an RH of more than 75%, the entire floor area should be treated with ARDEX DPM Surface Damp Proof Membrane or an equivalent product applied and seeded with ARDEX Fine Aggregate, in accordance with the current product data sheet, in place of ARDEX R 3 E Solvent Free Epoxy Primer. The substrate should have a surface tensile strength of at least 1.5 N/mm². ARDEX R73P Self-Smoothing Polyurethane Screed and primer/DPM may be applied to substrates of a lower strength, but long-term performance may be impaired. Once the mixed material has exceeded its pot life, the viscosity and the characteristics of the product will change and any unused product should be discarded at this time.

CLEANING TOOLS

ARDEX R 73 P Self-Smoothing Polyurethane Screed can be removed from tools and equipment by using ARDEX RTC tool cleaner, immediately after use. Any hardened material will need to be removed mechanically.

COLORS

ARDEX R 73 P is available in five standard colors: green, grey, orange, red, and cream. Other colors may be available to special order, subject to quantity and technical requirements ARDEX polyurethane floor systems are formulated to maximize the mechanical and chemical resistance properties, as a result of this, these types of systems are discolored by ultraviolet light leading to a “yellowing effect”. This yellowing effect is dependent upon the amount of UV exposure, both in terms of intensity and time, and is more noticeable with lighter colors.

CHEMICAL RESISTANCE

ARDEX R 73 P Self-Smoothing Polyurethane Screed is resistant to a wide range of liquids and chemicals, for specific information please refer to the ARDEX Technical Services Department.

COVERAGE

A 18.14kg pack of ARDEX R 73 P Self-Smoothing Polyurethane Screed will cover approximately 4.5m2 when applied at a thickness of 2mm. NOTE: These figures are theoretical, due to wastage and the variety and nature of substrates practical coverage rates may be reduced.

PACKAGING

ARDEX R 73 P is packed in a three-component pack consisting of parts A (resin) and B (hardener) packed in plastic bottles, part C (filler) packed in a bag.

STORAGE AND SHELF LIFE

Store in dry conditions between 5° and 30°C, protect from frost and direct sunlight. Storage life not less than 6 months in the original unopened packaging.