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# ARDEX R 24 PE

**Solvent Free Self-leveling Epoxy Resin Floor**

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**Solvent Free**

**Smooth, tough, hard wearing, easily cleaned**

**It is ideally to be used in Laboratories, clean rooms and general**

**Light & medium industrial environments such as workshops, production and processing areas**



本企业通过ISO9001:2000质量认证体系



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# ARDEX R 24 PE

## Solvent Free Self-leveling Epoxy Resin Floor

### DESCRIPTION

R24PE Solvent Free Self-leveling Epoxy Resin Floor is high performance, epoxy resin floor, the cured resin forms a pigmented, smooth, tough, hard wearing, easily cleaned layer.

Combining outstanding wearing properties with chemical resistance and decorative properties It is ideally to be used in Laboratories, clean rooms and general light & medium industrial environments such as workshops, production and processing areas.

### SUBSTRATE PREPARATION

The concrete or screed substrate must be hard, solid and free of dust and other barrier materials such as paint, lime coatings, plaster, curing agent, laitance, adhesive residues etc., that will inhibit adhesion to the substrate. Use degreaser to remove polish, wax, grease, oil and similar contaminating substances prior to mechanical preparation. Contaminated concrete surfaces should be mechanically prepared, either by scrubbing, grinding or contained shot blasting equipment or similar, and be vacuumed clean prior to applying R24PE Solvent free self-leveling Epoxy resin floor system.

After proper substrate preparation as described above, prime the substrate using R2PE solvent free primer before the application of R24PE resin floor. Note: movement joints should be brought through to the finished surface and suitably sealed. New concrete slabs must be allowed to cure for at least 28 days. One or more coats of primer may be required depending on the condition and porosity of the concrete substrate.

### MIXING

The individual components of R24PE Solvent Free self-leveling Epoxy Resin Floor should be thoroughly stirred before being mixed together. Mixing ratio is fixed at 4kg hardener (part B) to 20kg main component (part A). Mixing bucket should be clean and use a heavy duty slow speed drill and spiral paddle to mix, mixing time should be no

less than 3minutes. Fine aggregates (140-200) mesh quartz Sand can be added as filter to build  $\geq 1$  mm thickness.

### INSTALLTION

Once mixed, the material should be spread over the floor as self-heating in the container will reduce working time, apply using a trowel or gauge set rake to achieve the thickness. As soon as the R24PE has been laid and as work progresses, the surface should be gently rolled with a spiked roller in order to release any entrapped air from the mix and also to blend out any trowel marks. The work area should be protected during the installation process and during the initial curing stage to ensure that no debris can contaminate the surface of the resin.

### COVERAGE

Per (4+20kg) set can cover approx.24m<sup>2</sup> at 1mm thickness and 12m<sup>2</sup> at 2mm thickness

### PACKAGING

Part A / main component 20kg  
Part B / hardener 4kg

### STORAGE AND SHELF LIFE

Store in dry conditions, avoid sunlight, Epoxy resin has a storage life of not less than 9 months in the original unopened containers.

### LIMITATIONS

R24PE should not be applied to floors that are known to have rising moisture or have relative humidity of greater than 75% at the time of application, Epoxy products should not be applied in temperatures less than 10°C.

### PHYSICAL PROPERTIES

Working time: (23°C)	30min
Open to foot traffic:	24 hours
Fully cured:	7days
Recommended	
Compressive strength:	$\geq 80$ Mpa
Bonding strength:	$\geq 2$ Mpa
Shore D hardness:	approx. 80

### SAFTY AND HEALTHY

Epoxy product can be irritating to the eyes and skin and may cause sensitization by contact. They are considered harmful in contact with the skin and if swallowed. During mixing and application ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Always wear protective gloves and protective glasses throughout the whole process. Keep away from the children.

The technical details, recommendations and other information contained in this datasheet are given in good faith and represents the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable National or Local Standard, our instructions & recommendations, and only for the uses they are intended. Regional specific recommendations, standards, codes of practice, building regulations or industry guidelines may affect specific installation recommendations. Our Company policy is one of continuous Research & Development; we therefore reserve the right to update this information at any time without prior notice. We guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof. The supply of our products and services is also subject to certain terms, warranties & exclusions; and these details will be made available to you on request. You should make yourself familiar with them.