

Intrica PAS Coloured

Fast curing coloured polyaspartic coating



Description

Intrica PAS Coloured is a fast curing coloured, two-component solvent free polyaspartic floor coating for concrete surfaces. **Intrica PAS Coloured** provides a UV-resistant, tough, hard wearing coating system and can be used to produce decorative flake systems in conjunction with **Intrica PAS Clear**.

Appearance

Coloured gloss finish.

Available Colours

Black, White, Red, Light Grey, Mid Grey, Safety Yellow & Green.

Typical Uses

Decorative applications, warehouses, laboratories and food preparation areas.

Features & Benefits

- Fast cure. Ultra-quick return-to-service
- 100% solids. VOC free
- Excellent UV resistance
- Low viscosity
- Gloss, easy to clean finish
- Extremely durable & impermeable finish

Thickness

150 - 250 microns per coat depending on specification.

Typical Properties, 28 days at 20 °C

BS 8204-6	Type 3
Bond strength (BS EN 13892-8) (concrete failure)	> 3.0 N/mm ²
Impact resistance (BS EN ISO 6272-1)	4.7 Nm
Wear resistance (BS EN 13892-5)	< 50 µm

The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary dependent upon site conditions.

Pack Size

2.5 and 5 kg units.

Pot Life

Material Temperature	Working Time*
10 °C	~ 30 minutes
20 °C	~ 20 minutes
30 °C	~ 10 minutes

* Usable working life of material following mixing and immediate spreading as per the application instructions.

Cure Schedule @ 20 °C *

Over coating time	90 minutes - 12 hours
Cure time to pedestrian traffic	~ 4 hours
Cure time to light wheeled traffic	~ 8 hours
Full cure	~ 5 days

If the over-coating window is exceeded then the coating must be abraded to ensure inter-coat adhesion. The floor should be protected from contact with water for at least 3 days after application.

* The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions including film thickness, temperature and humidity. At lower temperatures or low humidity, curing times will be extended. Thicker films will take significantly longer to cure.

Coverage

The coverage rate will vary depending on the texture and porosity of the substrate, film thickness and application technique. Two coats may be required to avoid missed spots. The mixed density of the material is approximately 1350 kg/m³. As a guide, an application rate of 3 to 5 m²/kg will produce a film thickness of 250 to 150 microns respectively on smooth, non-porous surfaces. Do not apply at thicknesses greater than 250 microns as these films will take a significant amount of time to through cure.

Application Conditions

Intrica PAS Coloured may be applied between 10 °C and 30 °C. However, for best results, substrate and air temperature should be in the range 15 °C to 25 °C otherwise workability and cure rate may be impaired. Localised heating or cooling equipment may be required outside this range to achieve ideal temperature conditions. To reduce the risk of "blooming" or poor inter-coat adhesion caused by condensation, the climate above the uncured floor and the substrate should be maintained at least 3 °C above the dew point during application and for at least 48 hours after application. In any case, the ambient relative humidity should be between 30% and 75% during application and cure. Do not apply when ambient and substrate temperatures are rising otherwise pinholes may occur.

Surface Preparation

Concrete substrates must have a minimum compressive strength of 25 N/mm² and a minimum pull-off strength of 1.5 N/mm². Substrates must be dry, clean and free of surface laitance and contaminants such as dirt, oil,

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grease, poorly bonded coatings and surface treatments. If in doubt, apply a test area first. Inadequate preparation will lead to loss of adhesion and failure. In coatings, there is a tendency for the finish to mirror imperfections in the substrate. Grinding, or light vacuum-contained shot-blasting is therefore preferred over planing for these systems. High or low spots should be removed or repaired before proceeding. Concrete must include a functional damp-proof membrane. Concrete substrates must have a moisture content $\leq 4\%$ by weight ($< 75\%$ RH) otherwise **Pumaprime DPM** must be used as a primer.

IMPORTANT: Humidity in the atmosphere is required for the successful cure of polyaspartic based coatings. As a result, polyaspartic coatings will take a significant amount of time to through cure if applied in excess of the recommended film thickness (250 microns). It is especially important to ensure that the substrate is flat and defect free so that material does not pool in excess of the recommended film thickness.

Mixing

Materials should be conditioned at 15 °C to 25 °C for 24 hours prior to use. Pre-mix the resin component as there will be slight settlement in the bottom of the container. Add the hardener component to the resin component and mix using a low speed electric mixer (300 - 500 rpm) fitted with a suitably sized Jiffy-style paddle for at least 3 minutes until homogeneous. Keep the mixing head fully submerged to avoid air entrainment. Use a straight edged spatula to scrape the sides and bottom of the mixing vessel several times as unmixed material will result in uncured patches in the final finish. Do not add solvent/thinners to the product.

Pot Life

Mixed material must be used immediately. When mixed, a chemical chain reaction takes place which creates heat and further reduces pot life. High ambient temperatures and humidity will reduce pot life. Low temperatures and humidity increase curing time.

Application

Spread to the desired thickness with a rubber squeegee and finish immediately with a roller. Avoid pooling. If, when cured, there are dry/patchy areas, repeat the procedure for a second coat. Edges and difficult to reach areas may be applied thinly by brush. Plan the work area to maintain a wet edge and work within the working time of the material. Due to the rapid cure, roller sleeves should be changed regularly (at least every hour).

If required, broadcast decorative flakes or coloured quartz aggregate into the binder to saturation so that aggregates fall vertically into the binder. Fully broadcast systems may take longer to cure than the coating alone. Ensure sufficient cure has taken place to resist foot traffic without damage before applying subsequent coats.

Remove excess flakes/aggregates from the surface by sweeping followed by vacuuming until the surface is free from all loose particles. Seal using **Intrica PAS Clear**.

Tool Cleaning

Tools and equipment should be cleaned whilst the resin is still wet using **Pumasolve**.

General Maintenance

Intrica PAS Coloured can be easily cleaned using industry standard cleaning chemicals and techniques designed for synthetic resin flooring. Test cleaning agents prior to use. Do not steam clean or subject to temperatures in excess of 50 °C.

Aesthetics

As with all high gloss paint finishes, scratching of the surface may occur with use due to surface contamination and abrasion. Entrance matting and an effective cleaning regime will reduce these effects.

Be aware that settlement of dust, hairs, fluff etc. can impair the visual appearance of the finish.

Technical Advice

For further information on this or any other Resdev product, please contact our office.

Health and Safety

Before using this product, please ensure that you have read and understood the product Safety Data Sheet. Refer to hazard labelling on the product. Wear gloves and avoid contact with skin and eyes.

EU Directive 2004/42/EC

Complies with category j type SB (< 500 g/l).

Storage

Materials should be kept dry and stored in a weatherproof building maintained at 15 °C to 25 °C on pallets and away from walls. Consignments should be used in order of batch number. Protect from frost.

Shelf Life *

12 months if stored in accordance with the above recommendations.

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CE		15	DOP RV0086
EN 13813 SR-B2,0-AR0,5-IR > 4 Synthetic resin screed material for use internally in buildings			
Reaction to fire	E _{fl} ⁽¹⁾	Impact resistance	> IR4
Release of corrosive substances	SR	Sound insulation	NPD
Water permeability	NPD	Sound absorption	NPD
Wear resistance	AR0,5	Thermal resistance	NPD
Bond strength	B2,0	Chemical resistance	NPD

⁽¹⁾ According to Commission Decision 2010/85/EU of 9 February 2010, the product satisfies all the requirements of the performance characteristic 'reaction-to-fire' class E_{fl} without need for further testing.