

TECHNICAL DATA: APU48

APU48 2 Component Photo Stable Polyurethane Matt-Sealer

Mix Ratio

By Weight 4 Part A : 1 Part B
By Volume 100 Part A : 24 Part B

Application Conditions and Temperature:

Minimum 10 °C, air and substrate temperature and humidity must not exceed 75%. The difference in the floor and room temperature must be less than 3°C

Working Time:

Temperature	10 °C	20 °C	30 °C
Time	120 minutes	60-90 minutes	30 minutes

Cure Schedule:

Temperature	10 °C	20 °C	30 °C
Light Foot Traffic	20-24 hrs	18-24 hrs	12-18hrs
Tack free	2 – 3 hours @ 20 °C		
Mechanical Load	2 – 3 days @ 20 °C		
Full Chemical Resistance	28 days @ 20 °C		

Re Coat window:

18– 24 hours but within 48 hours @ 20 °C

1 kg Yield at prescribed Film Thickness 0.18 – 0.22kg/m² is 4.5 to 5.5 m²

Package Size: Available in 1kg and 5kg units

Appearance: Milky white liquid. Cures to clear Matt finish.

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Shelf Life: 12 months in unopened containers. **Must be protected from freezing**

Storage: Store product at normal room temperature, 20 °C before using. Storage should be between 15 °C and 32 °C.

Product Description:

- APU48 is a proven high quality, 2 component, polyurethane, matt finish sealer. Designed for application on concrete, epoxy resin, polyurethane and cementitious floor coatings.
- APU48 is based on new 2K, environmentally friendly technology and offers a great alternative to solvent based sealers.
- Sealing with APU48 results in an even, matt surface. This means that the product is ideal for visually demanding areas as it reduces glare and obvious marking
- APU48 cures by physical drying and chemical cross-linking to a consistent strong film. The resultant surface is a hard, abrasion resistant, photo-stable film with very little tendency to staining. It also has the important added benefit of being very easy to clean.
- APU48 is extremely resistant to water based solutions, diluted acids and alkalis as well as engine and fuel oil. The product is very resistant to staining from household chemicals, strongly dyeing foodstuffs and drinks like beer/ale, red wine or coke.

Product features:

- Even matt surface
- Environmentally friendly
- Abrasion resistant
- Low odour
- Excellent bond strength
- User friendly easy application

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Applications

- APU48 can be used with or without decorative PVC Flakes.
- Cafeterias, Restaurants, Waiting Areas, Gyms and Leisure Facilities, Show Rooms, Shops and Offices.
- Suitable as a finish for high-quality, photo-stable, flexible decorative coatings.
- As a matt sealer for high-quality epoxy-resin and polyurethane coatings.
- Seal or re-seal of old epoxy resin and polyurethane resin flooring (adequate testing and preparation must be carried out).
- As a Sealer for new or old concrete and polymer modified Cements.

Surface Preparation:

Prior to application we recommend that the substrate is mechanically prepared to ensure that all dirt, oil, dust, foreign contaminants, laitance and any previous poorly adhered coatings are removed to ensure a trouble free bond to the substrate. The substrate to be coated has to be levelled, dry and free of dust and must have adequate tensile and compressive strength.

The ideal point of time for sealing Epoxies and Polyurethanes is achieved when the previous coating has built an adequate film, but hasn't cured completely. Curing at 20 °C usually takes place after 20 hours at the earliest and 72 hours at the latest.

This product is suitable for sealing of concrete after 28 days and cementitious surfaces after fully cured and completely dry.

Should it be necessary to seal at a later point of time, or for re-sealing a trial should be carried out to test the substrate for adequate adhesion. Clean and prepare with a suitable mechanical method where required on old surfaces. Ensure that all dust and contaminants are thoroughly removed prior to commencing sealing.

Mixing

APU48 is a two component product. Part A should be pre mixed then thoroughly mixed for a minimum of two minutes with Part B using a low speed drill and mixing paddle, to ensure uniform consistency. Avoid air entraining the coating. Always ensure thorough mixing as improper mixing may result in product failure.

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Application

- Immediately after mixing pour the material into an application tray. Always maintain a wet edge to avoid roller marks.
- Apply the product at a rate of 4.5 to 5.5 m² per kg in a uniform manner with a lint free short pile roller. To obtain a uniform streak free appearance, it is critical that the material is not applied above or below this application rate and that ponding is avoided.
- Dip the roller in the coating and roll out excess material in the roller tray prior to actual application to the substrate. Overlap subsequent passes being sure no excess material is applied when overlapping. Make sure the floor has just enough material to cover evenly.
- A second applicator should re-roll the area in the opposite direction of the first pass to level and even the application.
- Direct sunlight or high temperatures may cause visible roller marking during application. Too thick of an application may result in blooming and product failure. The surface must be completely dry before the application of this product.
- Restrict the use of the floor to light traffic and avoid the use of chemicals (28 days) and water (7days) until the coating is fully cured minimum (28 days).
- Maintain temperatures and humidity within the recommended ranges during the application and during the curing process. **Before application the product must be at the same temperature as the room in which it will be applied. The floor temperature must not be any more than 3 °C lower than the room temperature unless this will be at dew point.** If a dew point situation occurs the product may spot and lead to possible failure or compromised product characteristics.

PRODUCT PERFORMANCE DATA

Abrasion Resistance	Taber Abrasor < 13 mg loss ASTM D4060
Viscosity	400-700 mpas
Flash Point	Not Flammable
Density	1.08 kg per/ litre
Solids Content	>40 %

Limitations


- Caution! Some cleaners may affect the colour of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.
- Designed for floors without or very little traffic with material handling equipment.
- Colour or gloss may be affected by humidity, temperatures, chemical exposure and application thickness.
- Always remove any spilled products immediately to avoid staining.

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- Avoid water for 7 days and then only a damp cloth until product is fully cured at 28 days.
- No chemicals for 28 days.
- For best results use a high quality short pile roller.
- Slab on grade requires moisture barrier
- All new concrete must be cured for at least 28 days
- Colours may vary from batch to batch, therefore, use only product from the same batches for an entire job.

	
Achtis Group 1 Peryton Park, Peryton Way Europarc Grimsby N E Lincs DN37 9TL UK	
APU48	
10	
EN 13813-SR-B1.5-AR0.5-IR5	
Synthetic Resin Screed Mortar	
Fire behavior:	E _{fl} - s1
Release of corrosive substances:	SR
Abrasion resistance	AR 0.5
Adhesive tensile strength:	B 2.0
Resistance to impact:	IR 16

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