

TECHNICAL DATA: EP 104

EP 104 2 Component Coloured Epoxy

Mix Ratio

By Weight 100 Part A : 45 Part B

Application Conditions and Temperature:

Minimum 10 °C air and substrate temperature. Humidity not to exceed 75%

Working Time:

Temperature	10 °C	20 °C	30 °C
Time	60 minutes	30 minutes	20 minutes

Cure Schedule:

Temperature	10 °C	20 °C	30 °C
Light Foot Traffic	24 - 36 hrs	14 - 18 hrs	10 - 14 hrs
Tack free	8 - 10 hours @ 20 °C		
Mechanical Load	2 - 3 days @ 20 °C		
Full Chemical Résistance	7 days @ 20 °C		
Pot Life	20 minutes @ 20 °C		

Re Coat window:

After curing but within 48 hours @ 20 °C

1 kg Yield as a resin coating at 0.4 – 1.2 kg/m² is 2.5 m² to 0.83 m²

RAL Colours Available – see colour chart

Package Size: Available in 10kg and 30kg units

Shelf Life: 12 months in unopened containers.

Storage: Store product at normal room temperature, before using. Storage should be between 10 °C and 20 °C. Any part used kits should be completely re sealed with tape and used as soon as possible.

The information contained in this technical data sheet is based on our previous experience and knowledge. It is not possible to consider every single case. Please seek technical advice for specific projects. We guarantee our product is manufactured to the specifications as stated herein. Beyond that no warranty is made, expressed or implied. We do not assume responsibility for work not carried out by us. We recommend that on-site-trials be conducted. Our "General Terms and Conditions" apply. This data sheet supersedes all previous data sheets.

Product Description:

- EP 104 is a high quality, solvent free, 2 component, coloured gloss Epoxy.
- EP 104 can be used as a stand-alone coat or can be filled and used as an Epoxy Mortar.
- EP 104 has a low to medium viscosity and is formulated to give good intermediate coat adhesion.
- EP 104 sets to a hard synthetic finish and exhibits excellent resistance to a wide range of chemicals and water including, Salts, Salt Solutions, Alkalis, diluted Hydrochloric and Sulphuric acid. As well as being resistant to Benzene, Fuel Oil, Oil and Grease.
- EP104 exhibits low yellowing.

Product features

- Solvent free
- Self-Levelling
- Coloured gloss finish
- Safe and reliable
- Excellent adhesion
- Long working life
- Resistant to Hydrolysis and Saponification
- Low Yellowing
- Water and Chemical Resistant
- Nonyl Phenol Free

Areas of Use:

- Areas of medium and high mechanical load e.g. warehouses and production areas
- Areas with increased exposure to water and chemicals
- As a binder for sand mortars
- As a pigmented wear or seal coat

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, free of dust and must have adequate tensile and compressive strength. We recommend the use of Primers EP 70 and EP 72 (please refer to the TDS's)

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Mixing

EP 104 is a two component product. Decant Part B, the hardener into part A then thoroughly mix for a minimum of two minutes using a low speed drill and mixing paddle, to ensure uniform consistency. Avoid air entraining the product. Always ensure thorough mixing as improper mixing may result in product failure. We recommend that the mixed product is decanted into a clean container and mixed briefly to avoid the chance of un-mixed product on container walls effecting curing. If part of a kit is to be used both parts should be premixed before carefully measuring out the required weight of product.

For sand mortars we recommend the use of a forced action mixer. First place the aggregate in the mixer then while the mixer is running add the **pre mixed resin**. The resin must be fully mixed in and the correct consistency achieved. Each mix must be mixed for the same time to achieve colour consistency.

Formula

EP 104 1kg – 1.2 to 1.5kg Sand

Application

- Immediately after mixing pour the product onto the prepared slab at the approximate weight per area of floor, for the desired application. Then with a notched trowel, squeegee and / or roller pull out an even coat on to the prepared surface.
- Re roll at right angles to the original application to be sure of even distribution of the product.
- Always maintain a wet edge.
- To increase adhesion to the substrate and remove any air we recommend spiked rolling. This should be carried out 10 – 20 minutes after applying the epoxy.
- If using EP 104 as a base coat for quartz broadcast we recommend broadcasting 20 – 30 minutes after applying the epoxy to allow for maximum air venting.

- 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.

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PRODUCT PERFORMANCE DATA

Shore D Hardness	78
Viscosity	Mixed Parts 750 mpas
Solids Content	>99%
Density	1.1 kg per/ litre
Water Absorption	<0.2 % by weight
Compressive Strength	80 N/mm ²
Bending Tensile Strength	35 N/mm ²

	
Achtis Group 1 Peryton Park, Peryton Way, Europarc Grimsby N E Lincs DN37 9TT UK	
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EP 104	
DIN EN 13813:2003-01	
Synthetic resin screed mortar DIN EN 13813: SR-B1.5-AR0.5-IR5	
Flammability	Bfl-s1
Emission of corrosive Substances	SR
Wear resistance to BCA	AR 0.5
Adhesive tensile strength	B 1.5
Impact resistance	IR 5

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