

YASH EPO COAT 104



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Nontoxic solvent free epoxy protective coating for concrete and metal
(Formerly known as Quickmast 401)

Description

YashEpo Coat 104 is a solvent free, non-toxic; high build epoxy resin protective coating with outstanding chemical and mechanical properties. YashEpo Coat 104 is supplied as a two component product in pre-weighted base and hardener packs, ready for site mixing.

Applications

YashEpo Coat 104 is designed for internal applications such as:

Heavy duty protective coating for concrete and steel.
Heavy duty wall and floor coating in food processing plants, grain silos, dairies, breweries, hospitals, and pharmaceutical industries. High chemical resistant protective coating for power stations, oil refineries, and sewage treatment plants.

Advantages

- + Suitable for contact with foodstuffs.
- + Excellent resistance to mould and fungus growth.
- + Excellent resistance to a variety of chemicals.
- + Easy to clean with a smooth, hard and glossy finish.
- + Non-toxic, low odour and taint free.
- + Exhibits good mechanical properties.
- + Resistant to sewage effluents.

Method of Use

Substrate Preparation

Concrete surfaces:

The Substrate should be sound, clean and free from contamination. Surface Laitance should be removed by grit blasting or water jetting. All exposed blow holes should be filled with epoxy paste using Quickmast 341.

Steel surfaces:

All surfaces should be grit blasted to reach a bright finish meeting the requirement of Swedish Standard SA2 ½.

Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used. Stir the content of each component separately to disperse any settlement.

Technical Properties:

Specific gravity	: 1.2 ± 0.1 g/cm ³
Solid content	: 100%
Colour	: Variable
Bond strength	: ASTM D4541-85 > 2 MPa
Pot life	: 40 - 50 min @ 25oC 20 - 30 min @ 35oC
Re-coatable time	: 5 - 16 hr @ 25oC
Full cure	: 7 days @ 25oC
Chemical resistance	: Long term immersion in water, petrol, oil, diluted acid and alkalis
Compressive strength	: BS6319, Part 2 : 1983 ≥ 70 MPa
Tensile strength	: BS6319, Part 7 ≥ 25MPa
Taber abrasion resistance	: (1000 g, 1000 cycle) ASTM D4060,
weight loss	: < 85 milligrams
CS17 wheel	: < 10 g/ltr
VOC	: < 10 g/ltr

Add the entire content of the hardener to the base and mix for 3 minutes and until uniform colour and consistency are achieved.

Application

YashEpo Coat 104 can be applied by brush; roller or airless spray machine. The first coat should be applied to obtain a continuous uniform coating. The second coat should be applied within the over coating time to achieve the maximum adhesion between the two coats.

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Notes:

YashEpo Coat 104 should not be applied over existing coatings. However it can be applied on top of itself, by maintaining the mentioned recoatable time.

Application should not be undertaken if the temperature is below 5oC, nor when the relative humidity exceeds 90%. Application should not be YashE, when there is standing or running water.

YashEpo Coat 104 is not colour stable when exposed to direct sun light nor when in contact with some chemicals. However this colour change does not affect the performance of the coating. Precaution is recommended if the application is taking place at high temperatures (above 30oC).

Cleaning

All tools should be cleaned immediately after application using YASH Solvent. Hardened materials must be cleaned mechanically.

Packaging

YashEpo Coat 104 is available in 5 kg packs (4.1 litre).

Coverage

1 pack will cover about 20 m² @ 200 microns. Two coats should be applied to achieve 400 microns dry film thickness.

Storage

YashEpo Coat 104 has a shelf life of 12 months from date of manufacture if stored in dry conditions at room temperature in original unopened Packs. If these conditions are exceeded, YASH Technical Department should be contacted for advise.

Cautions Health and Safety

Yash Epo Coat 104 should not come in contact with skin or eyes. Goggles and gloves should be used.

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

For further information refer to the Material Safety Data Sheet.

Fire

YashEpo Coat 104 is nonflammable.

More from YASH CONCHEM Products

A wide range of construction chemical products are manufactured by YASH which include:

- Concrete admixtures.
- Surface treatments
- Grouts and anchors.
- Concrete repair.
- Flooring systems.
- Protective coatings.
- Sealants.
- Waterproofing.
- Adhesives.
- Tile adhesives and grouts.
- Building products.
- Structural strengthening.