

YASH EPO COAT 204



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High chemical resistant solvent free epoxy protective coating for concrete and metal

Description

Yash Epo Coat 204 is a solvent free, high build epoxy resin protective coating with outstanding chemical and mechanical properties. YashEpo Coat 204 is supplied as a two component product in pre-weighted base and hardener packs, ready for site mixing.

Applications

YashEpo Coat 204 is designed for internal applications

such as:

Heavy duty indoor 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

- Solvent free and low odour.
- Excellent resistance to mould and fungus growth.
- Excellent resistance to a variety of chemicals.
- Easy to clean with a smooth, hard and glossy finish.
- Excellent abrasion resistance.
- Exhibits good mechanical properties.
- Resistant to sewage effluents.
- Excellent adhesion to concrete and steel.

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 Yash Epo Coat 842.

Steel surfaces:

All surfaces should be grit blasted to reach a bright finish meeting the requirement of Swedish Standard SA 2 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

Technical Properties:

Specific gravity	: 1.3 ± 0.1 g/cm ³
Solid content	: 100%
Colour	: Red, green & grey
Abrasion resistance	: Excellent
Bond strength	: > 2 MPa
ASTM D4541-85	
Pot life	: 45 min @ 30°C
Re-coatable time	: Between 5 - 16 hr @ 25°C
Full cure	: After 7 days @ 25°C
Light foot traffic	: 1 day @ 25°C
Application temperature	: - 35°C
BS6319, Part 7 5	
Service temperature	: -20 - 50°C
VOC	: < 10 g/ltr

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

Application

Smooth finish:

Yash Epo Coat 204 can be applied by brush; roller or airless spray machine. The first coat should be applied at a film thickness of 200 micron to obtain a continuous uniform coating. The second coat should be applied within the over coating time at 200 micron film to achieve the maximum adhesion between the two coats.

Anti slip finish:

The first coat (base coat) should be applied at thickness of 250 microns and whilst wet it should be fully blinded with the preferred aggregate size of Anti slip Aggregates. Once the base coat reached full cure; normally next day; all excess aggregates should be removed. The top coat should be applied at minimum thickness of 250 - 500 microns

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depending on the Anti slip Aggregate size used.

Notes:

Yash Epo Coat 204 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 5°C, nor when the relative humidity exceeds 90%.

Application should not be Yash, when there is standing or running water.

Yash Epo Coat 204 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 30°C).

Cleaning

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

Packaging

Yash Epo Coat 204 is available in 5 kg packs (3.8 litre).

Coverage

For smooth finish:

Approximately 19 m²/pack/coat to give 200 microns dry film thickness. Two coats should be applied to achieve 400 microns dry film thickness.

For anti slip finish:

Depending on the Anti slip Aggregate size used the consumption will vary from:

0.4 - 0.5 kg/m² for the base coat.

Storage

YashEpo Coat 204 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.

Chemical Resistance

Based on test method ASTM D543, after 7 days submersion in the below chemicals:

Hydrochloric Acid 36% Resistant*

Sulphuric Acid 25%	Resistant
50%	Resistant
Sodium Hydroxide 40%	Resistant
Oleic Acid (sat.)	Resistant
Viniger (sat.)	Resistant
Potassium Hydroxide	Resistant
Ammonia Solution 10%	Resistant
Water	Resistant
Chlorinated Water	Resistant
White spirit	Resistant
Xylene	Resistant*
Acetone	Resistant*
Brake Fluid	Resistant
Diesel	Resistant
Kerosene	Resistant

* can cause some slight discoloration.

Cautions

Health and Safety

Yash Epo Coat 204 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.

Fire

YashEpo Coat 204 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.

Note : We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, Yash cannot accept any liability either directly or indirectly arising from the use of Yash products, whether or not in accordance with any advice, specification, recommendation or information given by us.