

EPOXY RESIN COATING

DESCRIPTION

Congard Epoxy is a three part epoxy coating suitable for brush, spray or roller application and is available in a range of colours.

USES & ADVANTAGES

Congard Epoxy gives a tough cosmetic finish to tanks, steel structures and concrete surfaces. Suitable for use in many applications including, warehousing, interior facades, petrochemical facilities, bridges, off shore structures, the power industry and pulp & paper mills. Affords good protection against spills & splashes from a range of chemicals including acids, alkalis, solvents and salt solutions.

Advantages include:-

- Good abrasion resistance.
- Good chemical resistance.
- Can be used as primer system.
- Can be applied by brush, spray or roller.
- Available in full range of colours.
- Apply to concrete or steel surfaces.
- Suitable for vertical & horizontal application.

PROPERTIES

Component:	Three Part A - Base Part B - Hardener Part C - Colour pack
Colours:	Various colour available on request
Form:	Paint like consistency (when mixed)
Mixed Density:	1.47 ± 0.02 kg / ltr
Pot life:	2 - 3 hrs.
Drying time:	5 - 6 hrs.
Recoat time:	Min 8 hrs and Max 24 hrs.
Full cure:	7 days.
Chemical resistance:	Resistance to wide range & mild acids, alkalis, grease, petrol, fuel, etc.
Application temperature:	+ 5°C to + 35°C
Service temperature:	+ 5°C to + 70°C

SUBSTRATE PREPARATION

New Construction

- For steel apply over a recommended anticorrosive system.
- The substrate should be clean and dry and free of any oil, grease or soluble salt contaminants.
- Where necessary open the concrete surface removing laitance by chemical cleaning or blasting with water or sand. Ensure concrete surfaces are free of mould oils, curing compounds, dirt, dust, grease or excessive laitance.

The surface should be dry and not subject to rising moisture.

Maintenance and Repair

- Ensure the area to be painted is clean, dry and free of all contaminants including grease, oil, moisture, salts etc.
- For steel repair prepare the corroded areas with a suitable primer.

MIXING

Congard Epoxy is supplied in pre-measured packs. Base and hardener should be stirred separately before mixing. Transfer the colour pack to the base and mix it for one minute. Then add hardener part and mix using a slow speed drill machine and a paddle for two minute till you get a uniform colour.

PRIMING

It is recommended to use **Floorgard Primer 903** as a primer coat. Primer should be brushed into the substrate by using a roller or stiff brush and allow it to dry for atleast 16 hrs before the application & **Congard Epoxy**.

Congard Epoxy can also be thinned with thinner (10-15%) to provide as a primer coat.

APPLICATION

Method of Application

Airless Spray: Tip range 15-21 thou.(0.38-0.53 mm.)
Total fluid output pressure 2500 - 3000 p.s.i. (176 kg/cm²)

Brush or Roller: Suitable

Conventional Spray: Suitable

Thinner: Congard Epoxy Thinner

Cleaner: Congard Thinner

For concrete protection it is recommended **Congard Epoxy** is thinned with Congard Epoxy Thinner (10-15%) to provide good penetration into the concrete and to act as a primer/sealer coat. The moisture content of the concrete should be below 6% and the concrete cured for 28 days. Remove grease, oil, dirt, old coatings, loose material, curing compounds & release agents before priming.

COVERAGE RATES

Typically by brush or roller 75-100 microns per coat can be achieved. Multiple coats may be required to achieve the specified dry film thickness. Normally on concrete a primer coat is required plus 1 to 2 coats.

The numerical data given in the data sheet is subject to normal manufacturing tolerances. Practical consumption can vary depending upon conditions. The volume solids quoted on this data sheet is the percentage of dry film from a given wet film thickness under specified application rate conditions.

Congard[®] Epoxy



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For floor : 6 m² / ltr / coat @ 100 micron DFT.

For wall : 8 m² / ltr / coat @ 75 micron DFT.

It is recommended to use atleast two coats for better properties. For anti slip finish coverage & 2nd coat will be considerably reduced.

PACKAGING

5 litre set.

STORAGE & SHELF LIFE

Congard Epoxy: should be stored in dry conditions.

Flash Point: Greater than 23°C for both components and mixed paint.

LIMITATIONS

This product will not cure adequately below 5°C. In common with all epoxies **Congard Epoxy** finish may chalk on exposure to sunlight. Premature exposure to ponding water will cause a colour change especially in dark colours. The level of sheen and surface finish is dependent on application method. Avoid using a mixture of application methods whenever possible.

Over-application of **Congard Epoxy** will extend both the minimum overcoating periods and handling times, and may be detrimental to long term overcoating properties. For brush and roller application, and in some colours, two coats of **Congard Epoxy** may be required to give uniform coverage.

HEALTH & SAFETY

This product is intended for use by professional applicators in an industrial environment and should not be used without reference to the relevant Health & Safety data sheet. Minimum safety precautions when dealing with all paints are:-

- Avoid skin and eye contact.
- Provide adequate ventilation.
- If the product comes into contact with the skin wash thoroughly. If the product comes into contact with the eyes wash thoroughly and obtain medical attention.
- Keep away from sparks or flames. Avoid smoking.
- **Congard Epoxy** contains solvents ensure keep enclosed areas well ventilated and there are no sources of sparks. Avoid application in enclosed spaces without adequate breathing protection.

TECHNICAL SERVICE

The Cormix International Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

QUALITY ASSURANCE

ISO 9001 : 2008 verified by TUV Nord.

CONTACT DETAILS

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