



TSIRCON CO LTD

MANUFACTURERS & TRADERS
OF BUILDING MATERIALS

Ημ. έκδοσης 03/2007

TSIRCO-RES 408

Water Dispersible Epoxy

Product: A water dispersible pigmented epoxy sealer and coating.

Composition: Solvent free epoxy resin.

Purpose: A durable, chemically resistant, dustproofing, protective coating with a decorative finish, suitable to be used on both horizontal and vertical surfaces. Tsirco-Res 408 can be applied on dry or damp or surfaces, and can also be used over asphalt surfaces when prepared as described overleaf.

Usage: 20-30m²/4kg per coat depending on the condition of the substrate and the required film thickness. A dry film thickness of 250 μm can be achieved in two coats at a consumption of 175 g/m² per coat.

Pack: 4kg, 10kg.

Introduction: TSIRCO-RES 408 Protective Coating is a solvent free epoxy resin specially formulated to enable its application as a hard-wear decorative, protective and anti-graffitic coating on concrete and metals. It prevents the penetration of oil, grease and other chemicals into the substrate. TSIRCO-RES 408 is mainly used for the protection of industrial floors and walls. It can also be used as a protective coating for effluent treatment plants.



TSIRCON CO LTD

MANUFACTURERS & TRADERS
OF BUILDING MATERIALS

Advantages:

Advantages of TSIRCO-RES 408 can be summarised as:

- Good abrasion resistance
- Good chemical resistance
- Good adhesion to most substrates
- Economical protective coating
- Low odour
- Easily cleaned thus characterised as hygienic
- Easy cleaning of equipment
- Non flammable (solvent-free)
- Environmental benefit (friendly to environment)
- It can be used in confined areas

Properties:

Pot life: About 3 hours at 20°C

Colours: The standard colours are White, Grey, Green and Red. A wide range of further colours is offered by Special order.

Drying time: About 12 hours Tack Free at 20 °C

Period between subsequent coats: Within 24 hours at 20 °C

Open to full traffic: 7 days

Minimum application temperature: 8 °C

Chemical resistance: Tests have been carried out to determine the resistance of Tsirco-Res 408 to certain chemicals as shown below:

<u>CHEMICALS</u>	<u>PERMANENT RESISTANT</u>
<u>ACIDS</u> Sulphuric Acid 50% Sulphuric Acid 95%	Excellent Poor
<u>HYDROCARBON OILS</u> Machine Lubricant oil	Excellent



TSIRCON CO LTD

MANUFACTURERS & TRADERS
OF BUILDING MATERIALS

<u>HYDROCARBON SOLVENTS</u> Xylene White Spirit	Excellent Excellent
<u>ALKALIS</u> Caustic Soda 50%	Excellent
<u>Salts</u> FERRIC CHLORIDE 40%	Excellent

Where to use: It can be used as a hard-wear dustproofing, protective, decorative sealer or coating in areas such as abattoirs, car show-rooms, food storage and preparation areas, engineering shops, car parks, garages, laboratories, sewage treatment plants, hospitals, nuclear power stations, breweries, water supply installations e.t.c. Asphalt surfaces over six months old that have been exposed for at least one full summer period can be coated with TSIRCO-RES 408. This will ensure that all volatile vapours have been released so that they will not blister the coating. Such surfaces must be prepared by scrapping and cleaning, possibly with the use of detergents. If the surface is very porous use TSIRCO-ASPHALTIC LATEX for sealing as described in the relevant technical leaflet before coating with TSIRCO-RES 408.

How to use:

1. Preparation

Care must be taken before the application of TSIRCO-RES 408, to ensure that all surfaces to be treated are structurally sound, clean and free from loose materials and other contaminants such as oil, grease, dust, paints or other surface coatings. Grid blasting can be used for the preparation of existing surfaces. Where this is not possible then use TSIRCO-ACID ETCH provided no contact with metal surfaces will occur, followed by thorough rinsing with water. For very weak substrates a high penetration primer, TSIRCO-RES 173, is recommended. Prior to this, any defects on the surface should be repaired



TSIRCON CO LTD

MANUFACTURERS & TRADERS
OF BUILDING MATERIALS

with the use of our repair systems of the series TSIRCO-RES or TSIRCO-POLY.

2. Mixing

TSIRCO-RES 408 consists of the Base and the Hardener in pre-weighed, ready-to-mix proportions. The entire contents of the Hardener and the Base should be poured in a metal container and mixed thoroughly for at least 3 minutes, preferably by the use of a slow speed mechanical stirrer. Mixing during cold weather is aided by prior storage of the tins in a warm environment. Never keep the tins under direct sunlight, especially in warm climates, prior to their mixing because it shortens their pot life.

3. Application

To apply TSIRCO-RES 408 on the prepared surface use a brush, roller or airless spray which helps to achieve a continuous coating of uniform thickness. The second coat should be applied in the same way after the film reaches a tack free touch, however within 24 hours from first coat. If a non-slip surface is desired, broadcast TSIRCO-STRONGS 10 or 11 while the first coat is still tacky. Before applying the second coat, brush off any excess loose aggregate. Alternatively, use TSIRCO-RES 408 AS which is the same product as TSIRCO-RES 408 but with Anti-Slip properties. In such a case, no need to scatter TSIRCO-STRONGS to achieve the anti-slip effect.

Coverage Rate: As a general guide, use 0,13-0,20 kg/m² per coat. This coverage rate varies according to the porosity and texture of the surface and also on the climatic conditions.

Cleaning: All tools must be cleaned with warm water.

Handling Precautions: All protection measures should be taken to avoid skin contact with the product.



TSIRCON CO LTD

MANUFACTURERS & TRADERS
OF BUILDING MATERIALS

Storage Life: Not less than one year provided the product is kept in the manufacturer's undamaged sealed container and kept in a dry environment away from direct sunlight.

How to Specify: All surfaces indicated to be treated and coated with 2 coats of TSIRCO-RES 408, strictly in accordance with the instructions of the manufacturers TSIRCON CO LTD.