



**TSIRCON CO LTD**

MANUFACTURERS & TRADERS  
OF BUILDING MATERIALS

Ημ. έκδοσης 8/2007

# **TSIRCO-RES 173**

## **Epoxy Sealer and Surface Hardener**

### **Product**

A clear sealer and surface hardener for concrete and cementitious floors.

### **Composition**

Two-component epoxy resin liquid, containing solvents.

### **Purpose**

To seal concrete and other cementitious surfaces permanently, giving increased chemical and abrasion resistance.

### **Usage**

For relatively dense concrete 1kg of TSIRCO-RES 173 will treat approximately 3m<sup>2</sup> for the recommended two-coat application.

### **Pack**

7,5kg tins

### **Advantages**

- **Durability:** Prevents dusting of floors and improves abrasion and chemical resistance. The maintenance cost is considerably reduced.
- **Effective Waterproofing:** Prevents penetration of water, oil, grease or any other chemical solutions.

### **Introduction**

TSIRCO-RES 173 contains special solvents that carry the resin deep into the concrete to seal its pores and make the treatment not superficial. The resin seals the surface against penetration or attack by oil, grease, water, salts or chemical solutions.



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Dusting on floors or other surfaces, where dust-free conditions and long life are important, is prevented by the use of TSIRCO-RES 173.

## Typical Product Data

**Colour:** Clear amber

**Specific gravity of mixed product:** 0.90 at 20°C

**Flash point:** Above 42°C (Test method BS2000: Part 170:1982)

**Type of Solvents:** Aliphatic and Aromatic Hydrocarbons)

**Working life:** 10 hours at 20°C

**Curing Time:** For tack free at 20°C = 24 hours  
For light traffic = 48 hours

**Application Temperature Limits:** 13°C to 38°C

**Service Temperature Limits:** Not above 100°C

## Where to use

It can be used on either new or old cement based surfaces such as concrete floors, granolithic paving and cementitious screeds. Specifically designed for use in factories, dairies, slaughterhouses, garages, chemical plants, desalinization plants e.t.c.

## HOW TO USE

### 1. Preparation

Surfaces to be treated must be structurally sound, clean and free from loose materials and other contaminants such as oil, grease, dust, paints or other surface coatings.

Allow new concrete floors to cure for at least 14 days before treatment. The surface in all cases must be dry to maximise penetration.

### 2. Mixing

TSICO-RES 173 consists of the BASE and the HARDENER in preweighed 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 mechanical stirrer.



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### 3. Application

Pour the mixed TSIRCO-RES 173 to the clean and dry prepared substrate and spread the resin evenly by the use of a soft brush, roller or spray.

Make sure that no puddles are formed when applying and that the substrate is thoroughly saturated without leaving any excess material on the surface. The application rate depends on the substrate and must be determined by trials before large-scale application is carried out.

The second coat should be applied similarly after the first coat has dried, usually on the following day.

On very porous surfaces a third coat may be required.

### 4. Coverage

Approximately 3 m<sup>2</sup>/kg for two-coat treatment.

### 5. Cleaning

Clean all tools with TSIRCO-EPOSOLVE immediately after use.

### 6. Handling

Always handle resins with care to prevent skin irritation.

When dealing with TSIRCO-RES 173 it is essential that operators:

- a. Do not smoke.
- b. Avoid naked flames or lights.
- c. Avoid sparks.
- d. Prevent accumulation of vapour, through ventilation of the area until the product has cured.
- e. Avoid contact with skin, eyes and clothing. In case of accidental contact with skin or eyes, thoroughly wash with plenty of water and seek medical advice if any irritation develops or persists.

Refer to “**TSIRCO- RES Handling Guide**” for detailed instructions.

### Storage life

Not less than one year if kept in manufactures' undamaged sealed containers and stored in dry and cool conditions away from direct sunlight and frost.

### How to specify



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All surfaces (as indicated) to be treated with two coats of TSIRCO-RES 173 strictly in accordance with the instructions of the manufacturers, TSIRCON CO. LTD.