



**TSIRCON CO LTD**

MANUFACTURERS & TRADERS  
OF BUILDING MATERIALS

Ημ. έκδοσης 7/2003

# TSIRCO-RES 341E/342E

## Epoxy paste adhesive

A versatile epoxy adhesive designed specifically for use in building and construction

### Product

A versatile, high strength epoxy adhesive and patching compound with a creamy paste consistency.

### Composition

Two pack solvent- free epoxy resin incorporating fine fillers and a thixotrope.

### Purpose

Ideal for bonding concrete to concrete, for gap filling and for patching repairs. It can be used in thickness of over 2mm and it is suitable for applications in substantially thick layers, up to several centimeters in vertical, horizontal, as well as overhead situations. It can also be used for anchoring bolts in concrete, horizontally and vertically.

### Pack

1.5, 3 and 5kg.

### Ease of handling

Specially formulated to provide an easily applied paste. Priming is not required.

### Powerful bonding

Adhesion to most building materials is excellent. This product will bond even to damp surfaces and will cure under damp conditions.

### Durability

TSIRCO-RES 341E/342E does not shrink and has excellent resistance to weathering and many chemicals.

### INTRODUCTION

TSIRCO-RES 341E Epoxy Adhesive comprises two components, both of them incorporating special fillers giving a paste that is easily applied. After mixing and curing, TSIRCO-RES 341E acquires a grey colour. TSIRCO-RES 342E

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has similar characteristics to those of TSIRCO-RES 341E but it sets faster and cures at low temperatures, down to 3°C but not lower, making it particularly suitable for applications in cold conditions. At such low temperatures, the build up of cure and strength of TSIRCO-RES 342E compares favourably with the results of TSIRCO-RES 341E at ambient temperatures of approximately 15°C to 20°C.

## Where to use

TSIRCO RES 341E/342E can be used as general-purpose epoxy pastes. They are especially suitable for bonding work in vertical situations and particularly for overhead bonding. Both products are suitable for structural repairs and because they are thixotropic, they have excellent gap-filling properties. TSIRCO-RES 341E/342E are suitable for bonding most building materials, for example, concrete to concrete or steel and wood to old concrete. The two products can be used for patching work and they are particularly suitable for situations where shallow patching is required. Their pasty form makes them readily workable for achieving difficult or delicate contours. It can also be used for anchoring steel bars horizontally and vertically.

## HOW TO USE

### 1. Preparation

Prepare surfaces to be treated with TSIRCO-RES 341E/342E following the instructions provided in the General Information Sheet on how to use TSIRCO-RES Synthetic Resins.

### 2. Mixing

TSIRCO-RES 341E/342E epoxy pastes are supplied in two separate components, the BASE and the HARDENER, which must be mixed together using a small trowel to obtain a paste of uniform grey colour and of uniform consistency. The two components are pre-weighed by the factory and supplied in correct proportions. To aid mixing during cold weather it is advisable to store the tins in a warm environment.

### 3. Application (Priming is not required)

- a) To bond concrete units together, an even coat of TSIRCO-RES 341E/342E must be applied to both units and then the two units brought together applying light pressure. Any excess paste exuding from the joint should be removed and the joint area must be trowelled to smooth finish. It is important to protect the joint from shake or movement until the product has set.



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- b) To bond materials in overhead or vertical situations, an even coat of TSIRCO-RES 341E/342E should be applied to the prepared surface using a trowel and working it in well so that good contact between the surface and the paste is achieved. The fresh concrete or mortar should then be brought on top of the resin coat but this should be done after 30 minutes if you are using TSIRCO-RES 341E or after 15 minutes if you are using TSIRCO-RES 342E and the ambient temperature in both cases is 20°C. Both times should be calculated from the time immediately after mixing. The higher the ambient temperature the shorter the time interval between mixing and placing.
- c) In the case of patch repairs, the TSIRCO-RES 341E/342E epoxy paste must be applied to the prepared surfaces and finished to level by trowel. A good finishing result may be obtained by lightly dampening the trowel with TSIRCO-EPOSOLVE. If TSIRCO-RES 341E/342E is to be applied in difficult to reach areas such as boltholes, etc, a sealant gun may be used.

## **Storage**

Not less than one year provided the products is kept in manufacturers undamaged, sealed containers and stored in a dry environment away from direct sunlight.

## **How to specify**

Surfaces should be prepared following the instructions provided in the General Information Sheet on how to use TSIRCO-RES Epoxy Resins. TSIRCO-RES 341E/342E should be mixed and applied strictly in accordance with the instructions of the manufacturers, TSIRCON CO. LTD.