



**TSIRCON CO LTD**

MANUFACTURERS & TRADERS  
OF BUILDING MATERIALS

Ημ. έκδοσης 1/2006

# **TSIRCO-POLYCRETE SYSTEM**

**A polymer modified ceramic tile, marble and stone  
adhesive**

## **Product**

TSIRCO-POLYCRETE SYSTEM: A polymer modified adhesive compound, consists of Part A (liquid polymer) and Part B (sand-cement mix).

## **Composition**

Part A: Polymer modified, thixotropic liquid.

Part B: Sand-cement mix.

## **Pack**

Part A: 4lt, 20lt buckets, 210lt drums.

Part B: 25kg bags.

## **Powerful Bonding of TSIRCO-POLYCRETE SYSTEM**

Excellent adhesion to most building materials such as concrete, plaster, brick and other masonry surfaces. It is also ideal for bonding natural stones, marble, travertine, granite, slate etc.

## **Durability of TSIRCO-POLYCRETE SYSTEM**

Highly resistant to all kinds of weather and chemical attack.



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## Introduction

TSIRCO-POLYCRETE SYSTEM is an economical and easy to use material. It offers the following benefits:

- Excellent adhesion
- High mechanical strengths
- High resistance to de-icing salts, urine, sugars e.t.c.
- Easy to mix and apply
- Offers waterproofing
- Cures fully at high ambient temperature
- Resistant to freezing and thawing
- Impact resistant.

## Typical Product Data

### Part A

*Physical state:* White, thixotropic liquid

*Dry content material:* >23.0%

*Specific Gravity at 20°C:* 1.01

*Chloride ion content:* Nil

### Part B

Cement: Sand 1:1 with selected Silica Sand and Ordinary Portland Cement. When mixed with Part A will provide adhesion > 3N/mm<sup>2</sup> and Compressive strength ≥ 55N/mm<sup>2</sup> after 28 days at 20°C.

## Where to use

TSIRCO-POLYCRETE SYSTEM can be used for bedding tiles both internally and externally at any kind of structure, also in:

- Laboratories
- Lavatories
- Factories
- Swimming Pools
- Food Processing areas
- Sewers
- Slaughterhouses
- Paving areas
- Water treatment plants
- e.t.c.



## How to use TSIRCO-POLYCRETE SYSTEM

### 1. Preparation

The substrates to be bedded with Polycrete mortar must be structurally sound and free from oil, grease, dust and other impurities. Both, the surface of the substrate and the tile, must be pre-dampened sufficiently before bedding. If the surface is very porous we recommend to waterproof them using Tsirco-Poly 107 for the substrate and Tsirco-Repelant W for the very porous natural stones.

### 2. Dosage & Mixing

- For fine (up to 3mm) bedding of mosaic tiles mix TSIRCO-POLYCRETE Part A with Ordinary Portland Cement at a ratio 1:2 by volume.
- For bedding of stone, marble, large tiles, etc (thicker layers), mix TSIRCO-POLYCRETE Part A with TSIRCO-POLYCRETE Part B at a ratio 1:3 by volume.

**Note:** Mixing must be done preferably by the use of a mechanical stirrer, ensuring that no lumps have been left in the mix. Mix Part A with Part B directly without adding any water.

### 3. Application

Apply the prepared mortar with a notched trowel. The size of the notches depends on the type of tiling, as follows:

Type of tiling	Recommended Trowel Notch
Mosaics	3mm x 3mm
Quarry tiles and thin pavers	6mm x 6mm
Brick Pavers and Lug Back Tile	6mm x 10mm
Large tiles, Marbles	12mm x 12mm

Apply the prepared mortar both on the substrate and the tiles. Press the tiles firmly into place whilst the adhesive is still wet.



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## Coverage Rates

Consumptions that can be achieved with mortars incorporating Silica Sand are as follows:

Type of tiling	Coverage of TSIRCO-POLYCRETE m <sup>2</sup> per kg
Mosaics wall tiles on smooth surfaces	2.0
Wall tiles on concrete block	1.4
Quarry tiles and thin pavers	0.9
Brick pavers lug back tiles split tiles	0.6
Marble large tiles	0.4



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**For pointing of the joints please refer to the relevant Technical Leaflets of TSIRCO-POLYCRETE 1001 and TSIRCO-RES 1001.**

### **Storage life**

TSIRCO-POLYCRETE Part A has a storage life of not less than one year. The product must be kept in the manufacturer's sealed containers and it must be protected from frost and direct sunlight, especially at high Ambient Temperatures. In case it becomes frozen, thawing must be allowed and thorough mixing must be made before use.

TSIRCO-POLYCRETE Part B has a storage life of not less than 6 months if kept in the manufacturer's undamaged sealed containers and stored in a dry and cool environment, away from frost.

**Cleaning:** All tools must be cleaned with water immediately after use. Surfaces should be cleaned with a damp cloth. Moderate water can be used on the surfaces only after a few hours from the application.

### **Handling precautions**

TSIRCO-POLYCRETE is a non-hazardous compound however care should be taken to avoid prolonged contact with the skin. During the application the operator must wear protective gloves and glasses. In cases of accidental contact, skin must be washed off with clean water.

### **How to specify**

TSIRCO-POLYCRETE SYSTEM to be used strictly in accordance with the instructions of the manufacturers, TSIRCON CO. LTD.