



TSIRCON CO LTD

MANUFACTURERS & TRADERS
OF BUILDING MATERIALS

Ημ. έκδοσης 3/2007

TSIRCO-POLY 107

Polymeric waterproofing and protective slurry

Introduction: A cement-based one part polymeric protective and waterproofing slurry used as a heavy duty waterproofing coating for concrete and masonry.

Purpose: To waterproof structures, such as water tanks, retaining walls, swimming pools, basements etc, externally and internally and thus protect them from weathering.

Pack: 25kg paper bags.

Advantages:

TSIRCO-POLY 107 provides the following basic benefits:

- Easy to mix and apply since it is one part.
- Good bonding to most building materials.
- Effective waterproofing above and below water level against hydrostatic pressure.
- Can be applied in a slurry consistency with stiff brush or as a trowelable waterproofing render.
- Compatibility and adhesion with sound masonry substrates (concrete, stone, brick, e.t.c.).
- Increased resistance to freezing and thawing.
- Non-toxic. Can be used for potable water storage tanks.
- Slightly flexible to bridge over cracks.
- Provides protection against carbonation and chloride attack.

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- Applied with a fibre mesh, it will give extra strength and durability
- Apart from protection and waterproofing it also provides smoothing of surfaces if used in adequate thickness.
- Can be used as a repair material, part of the Tsirco Repair System.

Properties:

Colour: Grey when mixed

Pot life: 30 minutes at 20°C

Bond strength at 28 days: Approx.3 N/mm² at 20°C.

Where to use: TSIRCO-POLY 107 as exterior and interior waterproofing slurry for concrete, concrete blocks, brick, stone and other building materials. It can be used above and below water level as a crack sealer, repair mortar and has excellent resistance to freezing and thawing. It finds application in the following structures:

- Water reservoirs
- Tunnels
- Swimming pools
- Basements and cellars
- Retaining walls
- Industrial Floors
- e.t.c.

How to use:

1. Preparation

The surface to be treated must be clean and free from any loose particles and other contaminants such as oil, grease, dust. e.t.c. Where the substrate is steel or other metal surface, any scale, rust, oil and grease should be removed. Repair all cracks and fill any cavities using TSIRCO-POLY 122/122L or any other material from our recommended range of products, prior to the application of TSIRCO-POLY 107.



2. Mixing

When mixing, use a clean container. Put clean water in the container and mix thoroughly, preferably with a slow speed mechanical stirrer, until uniform slurry is achieved. The ratio between water and TSIRCO- POLY 107 to be around 1:4 by weight. Allow the mixture to rest for 3 minutes and then stir again. A trowelable consistency can be achieved by modifying the ratio between water and TSIRCO-POLY 107, i.e. reduce amount of water.

3. Application

Dampen surface immediately before the application of TSIRCO-POLY 107. Apply material either by stiff brush or trowel. For brush application the material must be of slurry consistency and the brush must be either of hard plastic bristle type or a tampico fiber brush. Paint brush is not recommended. In case that a fibre mesh will be applied, this should be placed between the first and the second layer. After second layer application, rub down the surface using a soft dry sponge to achieve a smooth finish.

4. Curing

It is not necessary to cure the treated area. Under certain circumstances, curing may be necessary. Obtain advice from our Technical Department.

Coverage:

Coverage depends on type of application as follows:

- a. For waterproofing up to 1m head pressure: 1.2kg/m²/coat
- b. For waterproofing above 1m head pressure: 1.5kg/m²/coat
- c. For frost protection: 1.5kg/m²/coat
- d. For any particular application ask for technical advice. Always apply 2 coats. When waterproofing areas with high water infiltration, 3 coats or more may be required.

Application Temperature:

Minimum application temperature: +8°C.



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Cleaning: Use plain water to clean all equipment after use.

Storage Life: Not less than 6 months if kept in manufacturers undamaged sealed containers and stored in a dry and cool environment, away from frost.

Handling Precautions: TSIRCO-POLY 107 is non-toxic. In case of eye splashes, wash thoroughly with water but if irritation persists, seek medical advice.

How to Specify: Use TSIRCO-POLY 107 to waterproof concrete-brick-stone* in accordance with the instruction of the manufacturers TSIRCON CO LTD.

* Delete as applicable.