



TSIRCON CO LTD

MANUFACTURERS & TRADERS
OF BUILDING MATERIALS

Ημ. έκδοσης 3/2004

TSIRCO-PASTA Nos 3,5,7

Waterproofing Bitumen Emulsions

Product: Water-based, homogeneous, cold applied bituminous materials used as vapour barriers or waterproofers on concrete surfaces and other building materials.

Purpose: Tsirco-Pasta Nos 3,5 and 7 are used as vapour barriers or waterproofers on concrete surfaces. They may be used with a fiberglass reinforcement sandwiched between the layers of the emulsions, to provide extra flexibility, thus to accommodate movements of the substructure.

Usage: 1.5 to 3.5kg/m² in multiple layers.

Pack: 20 and 210 litre drums.

Introduction: TSIRCO-PASTA Nos 3,5 and 7 are waterproofing and protective coatings with wide applications in the construction industry. May be used on most building materials especially on concrete below grade. To maximise durability and flexibility the coating may be reinforced with a fiberglass tissue. Tsirco-Pasta No. 3 is non-fibre reinforced while No. 5 contains a small percentage of fibres. No. 7 contains longer fibres.



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Properties:

Colour: Black

Residue: 40-60%

Water:60-40%

Ash of non volatile:30-50%

Drying Time: 3-6 hr depending on weather conditions

Fire Resistance: When wet is non-flammable but will burn slowly when dry

Toxicity: Non-toxic under normal conditions

Chemical Resistance

Dilute acids - Resistant

Dilute alkalis - Resistant

Aliphatic hydrocarbons - Poor

Aromatic hydrocarbons - Poor

Chlorinated solvents - Poor

Salt solution - Resistant

Detergent solution - Poor

Water - Resistant

Alcohol - Resistant

Flexibility - Firm and flexible coating but will soften at high temperatures

Shrinkage factor - Approximately 45% from wet to dry state.

| | No. 3 | No. 5 | No. 7 |
|---------------------------|-------------------------------------|-------------------------------------|----------------------------|
| Complying specifications: | ASTM 1227-82 | ASTM 1227-82 | ASTM 1227-82 |
| | Type I | Type II | Type III |
| Application temperature: | 5°C-50°C | 5°C-50°C | 5°C-50°C |
| Service temperature: | -10°C-85°C | -10°C-85°C | -10°C-120°C |
| Specific gravity: | appr. 1.0 | appr. 1.05 | appr. 1.1 |
| Application rate: | 0.7-0.75 lt/m ² /coat | 0.7-0.75 lt/m ² /coat | 3.0lt/m ² /coat |



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Water vapour transmission: 0.10 perms 0.10 perms 0.075 perms
Temperate at 1.5mm thickness at 3mm thickness
(25°C, 75% R.H.)

Tropical 0.075 perms 0.075 perms 0.04 perms
(38°C, 90% R.H.) at 1.5mm thickness at 3mm thickness

Water vapour resistance 175 GNs/kg 175 GNs/kg 240 GNs/kg
Temperate: at 1.5mm thickness at 3mm thickness
(25°C, 75% R.H.)

Tropical 240 GNs/kg 240 GNs/kg 480 GNs/kg
(38°C, 90% R.H.) at 1.5mm thickness at 3mm thickness

Where to use: May be used on almost all building materials such as concrete, asbestos cement, below grade brick & blockwork, roofing felt, mastic asphalt, tiles, insulation etc. Also on metals, lead, copper, zinc etc, as a corrosion-resistant coating. Mainly used for waterproofing of retaining concrete walls, basements etc. or for the renewal of existing waterproofing insulations. Tsirco-Pasta No. 3 may also be used as a primer if diluted with 50% water for the application of Roofing Felts.

How to use:

1. Preparation

All surface to be treated must be free from dust, dirt, oil, grease or loose material.



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2. Priming

Prime the surface with TSIRCO-PASTA No. 3 diluted with water at a ratio 1:1. Allow it dry before over coating.

3. Application

TSIRCO-PASTA No. 3

Apply a minimum of two coats by brush or roller. Allow 24 hours to elapse between coats and apply each coat at right angles to each other.

TSIRCO-PASTA No. 5

As above.

TSIRCO-PASTA No. 7

Apply by trowel, not more than 3mm thickness per coat as this may cause cracking. Allow 24-48 hrs between coats.

All types Nos 3,5 and 7 must be protected from frost and rain until cured.

Cleaning: All tools and equipment shall be cleaned with water provided that the material has not hardened. Use a solvent to remove hardened material, such as white spirit or petrol. Mechanical means may be required to remove the hardened material from concrete walls.

Storage Life: Will remain unaffected for one year if kept sealed in the manufacturers unopened containers. Protect from frost and store under cool and dry conditions.

How to Specify: The surfaces to be treated must be probably cleaned. TSIRCO-PASTA Nos 3, 5 and 7 must be used in accordance with the instructions of the manufacturers TSIRCON CO LTD, or as approved by the Supervising Engineer.