

### ▶ Description

TamSeal 10 is an economical, cement based, waterproofing material that can be applied as a slurry or render.

TamSeal 10 is based on a selected blend of aggregates and cement coupled with re-dispersible co-polymer latex and other waterproofing additives, enhancing its waterproofing properties and adhesion. It is applied as a surface treatment for concrete, brickwork and block work. As an effective waterproofing material, TamSeal 10 provides both a permanent seal and permanent protection against fresh and salt water under pressure. It can withstand up to 70 metres of hydrostatic water pressure.

The standard colour is dark grey. Concrete grey and white are available upon request.

### ▶ Key Benefits

- Waterproof whether applied internally or externally
- Breathes the same as concrete
- Cured coating reduces the risk of efflorescence and salting
- Good adhesion
- Durable – lasts as long as the concrete
- Economical and easy to apply
- Does not create a vapour barrier
- Long open time
- Resistant to alkalis
- Environmentally friendly water based product. No solvents and no VOC's.
- Potable water certified

### ▶ Typical Applications

- Water Tanks
- Foundations
- Retaining Walls
- Dams
- Reservoirs
- Pools
- Cellars

### ▶ Application Guidelines

For standard application, TamSeal 10 requires the addition of water only. Under severe applications of hydrostatic pressure, we recommend the use of a gauging liquid of 1 part clean water to 1 part TamSeal Acryl to enhance overall performance.

#### Surface preparation

All surfaces must be thoroughly cleaned and free from laitance, loose material, dust, dirt, oil, grease, general grime, all contaminants, etc.

**New Concrete:** As above - on smooth concrete surfaces it may be necessary to acid etch, grit blast or use TamSeal Acryl in the gauging liquid.

**New Brickwork / Block work:** As above - all surfaces to be treated should be reasonably even. For uneven surfaces, flush with a 3:1 sand (BS1199) and cement mix with TamCrete 46 in the gauging liquid prior to application. Old brickwork: see Tanking Guide.

**Note:** All cracks should be repaired using 3:1 sand (BS 1199) and cement mix with TamCrete 46 in the gauging liquid or for rapid repairs TamCrete Plug or TamCrete PolyPlug. The above material can also be used for the floor / wall junction to form a 45° angle fillet.

#### Mixing

Pour the TamSeal 10 into a clean suitable mixing vessel ie. Bucket, then gradually add the water / gauging liquid into the powder while mixing with a low speed paddle mixer until a creamy consistency mixture is obtained. Leave to stand for 2mins then remix to ensure all the chemicals have completely dispersed. The material should be stiff enough to support the weight of the TamSeal application brush.

For trowel-applied applications: Reduce the amount of gauging liquid used to obtain the required mortar consistency.

**New Brickwork / Block work:** Using a fibre brush, load TamSeal 10 onto the brush and apply to the prepared, pre-wetted surface, at the appropriate coverage rate.

Do not brush out as with paint, but spread it out and maintain a flowing edge. The first coat should be applied with vertical strokes and be left to dry until it has cured enough to receive a second coat without damage (Min 4hrs / Max 36hrs) Any weeps should be sealed using TamCrete Plug or TamCrete PolyPlug prior to the

application of the second coat. The second coat may be brushed or trowelled but if brush applied it should be applied in horizontal strokes.

Do not decorate until TamSeal 10 has fully cured and dried. This could take several months in damp conditions with little ventilation. Do not use Gypsum plaster in association with any TamSeal system.

TamSeal 10 is not suitable for use in concrete which contains certain proprietary waterproofing admixtures, as this may interfere with bonding. Please refer to manufacturer for details. Since TamSeal 10 has a similar modulus to concrete, it is not suitable for substrates prone to settlement or for waterproofing active cracks. Tam injection resins should be used to waterproof active cracks.

Where existing surfaces show evidence of salt bloom and/or efflorescence, TamSeal 10 should not be used directly onto the substrate. Further formation of salts within the coating will cause failure. Protection must be provided against sulphate attack in sulphate bearing soils.

Condensation may be very noticeable in basements and poorly ventilated enclosures. Tiny droplets of water will form on the TamSeal when humidity is high. This can be avoided by over plastering with a cement-based, lightweight renovating plaster, thereby increasing the thermal properties of the wall. Dehumidification may be necessary in extreme cases. Do not apply at temperatures below 5°C or above 35°C or where there is a strong drying wind.

### Curing

This should be conducted to the relevant standards, either with a water mist spray or a conforming curing agent.

### Coverage

Non water retaining application:

1<sup>st</sup> Coat: 1.5kg/m<sup>2</sup>                      2<sup>nd</sup> Coat: 1.0kg/m<sup>2</sup>

Water retaining application:

1<sup>st</sup> Coat: 1.5kg/m<sup>2</sup>                      2<sup>nd</sup> Coat: 1.5kg/m<sup>2</sup>

Application with severe water pressure:

1<sup>st</sup> Coat: 2.0kg/m<sup>2</sup>                      2<sup>nd</sup> Coat: 1.5kg/m<sup>2</sup>

while incorporating TamSeal Acryl liquid polymer in the gauging liquid.

### Tanking Guide for Old Brickwork

#### Surface Preparation:

Bush-hammer, scabble, sandblast or grit blast the entire surface to be treated, removing any loose or un-sound masonry.

Wash down surfaces to remove any dust and debris and make good any loose or faulty brickwork using 3:1 sand / cement, incorporating TamCrete 46 in the gauging liquid. Chase out floor / wall joint to a minimum depth of 25mm.

Apply a brush coat of a salt neutraliser to the entire surface if required.

Apply either a 3:1 sand cement mortar incorporating TamCrete 46 to floor / wall joints or TamCrete Plug or TamCrete PolyPlug for rapid plugging of the joint.

Apply a render coat of 3:1 sand and sulphate-resisting cement incorporating TamCrete 46 in the gauging liquid. Minimum render thickness 10mm and to be wood float finished.

Apply the first coat of TamSeal 10 to render coat whilst still "green"

Apply the second coat of TamSeal 10 after the first coat has set (minimum 4 hours, maximum 36 hours).

Note: If a plaster finish is required, we recommend a splatter coat of 1:1 sand cement be applied after the second coat and that a cement based plaster be used (non Gypsum based).

#### Cleaning

Thoroughly clean all tools and equipment with water after use.

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#### ▶ Storage

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TamSeal 10 should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of up to 12 months can be expected.

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#### ▶ Health & Safety

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TamSeal 10 should only be used as directed. We always recommend that the Health & Safety data sheet is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Health & Safety data sheet is available upon request from your local TAM International representative.