TamSeal 5

Cementitious Flexible Waterproofing Coating

CONSTRUCTION CHEMICALS

TECHNICAL DATA SHEET

DESCRIPTION

TamSeal 5 is an economical two component acrylic polymer modified cementitious flexible waterproof coating system. It is composed of specially selected fillers supplied in powder form together with a liquid component of blended latex copolymers and wetting agents.

TamSeal 5 offers an effective barrier against waterborne salts and atmospheric gases. TamSeal 5 has outstanding wear and weather resistance.

KEY BENEFITS

- Flexible
- Easy two coat application
- Excellent adhesion. Bonds to both porous and non-porous concrete.
- No primers required
- Rapid setting
- Up to 7 bar positive water pressure
- Environmentally friendly water based product. No solvents and no VOC's

TYPICAL APPLICATIONS

- Surface waterproofing
- Lift shafts
- Basement tanking
- Anti-carbonation coating
- Bund walls
- Pile caps

TECHNICAL DATA

TamSeal 5		
	Part A	Part B
Form	Powder	Liquid
Colour	Grey/White	Milky white
Density	-	1.03
Bulk density	1.36	-
Mixing ratio (A:B)	2.5 - 3.0 to 1 by weight	
Application temperature	4°C < 38°C	
Density	1.8 (mixed)	
Toxicity	Non-Toxic	
Cured Properties		
Adhesion to concrete	> 0.4 MPa	
Resistance to water pressure (2 mm coating) Taywood Test	7 bar positive (no leakage) 3 bar negative (no leakage)	
Elongation ASTM D2370	> 40%	

All technical data stated herein is based on tests carried out under laboratory conditions.

APPLICATION GUIDELINES

Surface Preparation

- All surfaces must be thoroughly cleaned and free from laitance, loose material, dust, dirt, oil, grease, general grime, all contaminants, mould oil, curing agents, etc.
- When there is evidence of fungus or mould growth, a suitable fungicide should be used prior to application.
- All non-structural cracks above 1mm wide should be filled.
- All structural cracks should be properly repaired or treated.
- Any holes or indentations should be filled with suitable filler (Not TamSeal 5).
- Brick pointing should be made flush.
- All renders, coatings, tiling should be removed back to the structure to be waterproofed.

- Any loose pointing should be raked out and re-pointed flush with the surface of the bricks or block-work.
- Any loose friable concrete or brickwork should be cut out and properly repaired.
- All old repairs should be inspected and repaired where necessary.
- Newly laid concrete should be smooth and not a tamped down finish.
- Newly laid concrete can be coated after 24 hours or as soon as it can be walked on.
- Leaking construction joints or cracks should be treated and sealed with TamPur 130 or TamPur 150 before coating.
- Apply 45° fillets to all internal angles, using TamCrete Plug, TamCrete PolyPlug or if time permits, sand and cement.

Mixing

TamSeal 5 consists of two components part A powder and part B liquid. Pour the part B into a clean suitable mixing vessel ie. bucket and then gradually add the part A into the part B while mixing with a low speed paddle mixer until a smooth lump free mixture is obtained.

Only mix suitable quantities that can be applied within 20 minutes and stir mixture frequently. Do not remix with additional liquid. Clean all equipment and tools immediately after use with clean water

Brush application: Use 2.0 - 2.5 Part A to 1 Part B by weight
Trowel application: Use 3 Part A to 1 Part B by weight.

Application Method

TamSeal 5 can be applied once the concrete has reached initial set thereby aiding curing and giving the concrete immediate protection.
Dampen (no free standing water) all surfaces with clean water prior to application. The total application should not exceed 3mm thick otherwise splitting or cracking may occur. Do not apply over bitumen or other surface coatings.

New Expansion Joints: TamSeal 5 should be applied into the rebate below the level of the expansion media (i.e. Mastic).

Old Expansion Joints / Movement Cracks: These should be inspected and repaired prior to application. Mask over the media (mastic / crack) with de-bonding tape. One coat of TamSeal 5 should now be applied over the joint / crack to at least 100mm on either side. Reinforcing mesh should be embedded into the first coat while it is still wet. Second coat should be applied only after the first coat is touch dry.

Application of the main coating system

Apply the first coat of TamSeal 5 using a brush, roller or trowel at a coverage rate of 1.8 kg per m² making sure it is evenly coated. Do not paint-on but spread on 1mm thick. Once touch dry additional coatings (as required) can be applied. Apply the second coat at right angles to the first coat to ensure proper coverage at a coverage rate of 1.8kg per m². Allow the TamSeal 5 coating to dry completely before subjecting to light foot traffic. For heavier usage protect with a floor screed. Water bearing structures can be filled with water 24 hours after the TamSeal 5 has fully cured.

Note: Coverage rate may vary with substrate condition.

Cleaning

Thoroughly clean all tools and equipment with water after use.

PACKAGING

TamSeal 5 is supplied in 10 kg and 15 kg all-in-one set. Packaging size may vary subject to local regulations and requirements.

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

STORAGE

TamSeal 5 should be stored at room temperature (min 4°C and max 30°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of one year can be expected.

HEALTH & SAFETY

TamSeal 5 should only be used as directed. We always recommend that the Safety Data Sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety Data Sheet is available upon request from your local Normet representative.