

▶ Description



TamSeal 30 is a unique chemical treatment for the waterproofing and protection of concrete. TamSeal 30 can be applied as a second coat to reinforce TamSeal 20 or applied by itself to damp-proof the exterior of foundation walls. Applied as a second coat, TamSeal 30 chemically reinforces TamSeal 20 where two coats are required and produces a harder finish. Where damp-proofing is required, a single coat of TamSeal 30 may be used as an alternative to a spray/tar emulsion. TamSeal 30 prevents the penetration of water and other liquids from any direction by causing a catalytic reaction that produces a non-soluble crystalline formation within the pores and capillary tracts of concrete and cement-based materials.

▶ Key Benefits

- Resists hydrostatic pressure
- Becomes an integral part of the substrate
- Allows concrete to breathe
- Resistant to aggressive chemicals
- Non-toxic
- Does not require dry weather or a dry surface
- Cannot puncture, tear or come apart at the seams.
- No costly surface priming or levelling prior to application
- Does not require sealing, lapping and finishing of seams at corners, edges or between membranes
- Can be applied to the positive or negative side of the concrete surface
- Does not require protection during backfilling or during placement of steel, wire mesh or other materials

- Permanent
- Environmentally friendly water based product. No solvents and no VOC's.

▶ Typical Applications

TamSeal 30 is recommended as a single coat for the damp-proofing of foundations or as a two coat system alternatively as second coat with TamSeal 20 for the following applications:

- Reservoirs
- Sewage and water treatment plants
- Secondary containment structures
- Tunnels and subway systems
- Underground vaults
- Foundations
- Parking structures
- Swimming pools

▶ Technical Data

TamSeal 30	
Withstand water pressure	> 7 bar @ 28 days
Colour	Cement grey
Bulk density	1.3
Setting time	50 minutes

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

▶ Application Guidelines

Surface Preparation

All concrete to be treated with TamSeal 30 must be clean and have an "open" capillary system. Remove laitance, dirt, grease etc. by means of high pressure water jetting, wet sandblasting or wire brushing.

Faulty concrete in the form of cracks, honeycombing, etc. must be chased out, coated with TamSeal 30 and filled flush with mortar containing TamCrete 46.

Surfaces must be carefully pre-watered prior to the TamSeal 30 application. Dampen (no free standing water) the concrete surface with clean water prior to application.

Note: TamSeal 30 is not a decorative material.

Mixing

Pour water into a clean suitable mixing vessel and then gradually add the TamSeal 30 powder into the water while mixing with a low speed paddle mixer until a consistency of thick oil paint is obtained.

Only mix suitable quantities that can be applied within 20 minutes and stir mixture frequently. If the mixture starts to set, do not remix with additional liquid and simply re-stir to restore workability.

Mixing Ratio: use 5 parts TamSeal 30 to 2 parts water by volume.

Application Method

Slurry Consistency - Apply one or two coats (according to specifications) of TamSeal 30 using a masonry brush or appropriate power spray equipment. When two coats are specified, apply the second coat whilst the first coat is still "green".

Post Treatment - Once the TamSeal 30 treatment has reached initial set, moist cure with a fine fog spray of water 2 - 3 times per day for three days. In hot or windy conditions it should be cured more frequently. During the curing period the TamSeal 30 treatment must be protected from rainfall, frost and puddles of water.

Coverage

For normal surface conditions, the coverage rate for each coat is 0.75 - 0.8 kg/m².

Concrete surfaces to be backfilled:
1st Coat: 0.75kg/m²; 2nd Coat: 1kg/m².
Brush or spray applied.

Water Retaining Structures, Internal Concrete Wall Surfaces: Two coats of TamSeal 30 at 0.75kg/m². Brush or spray applied.

Concrete Slabs.

Hardened Concrete: Apply TamSeal 30 at 1.00kg/m² in one slurry coat.

Cleaning

Thoroughly clean all tools and equipment with water after use.

Limitations

Do not apply TamSeal 30 at temperatures below +5°C. TamSeal 30 cannot be used as an additive to concrete or plaster.

▶ Storage

TamSeal 30 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 12 months can be expected.

▶ Health & Safety

TamSeal 30 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.