

UNIVERSAL MORTAR

Mortar & Fillet Seal

Universal Mortar is a single component, thixotropic, fibre reinforced, polymer modified cementitious mortar.



The product cures to produce a high performance, **Universal Mortar**, Multi-purpose, fibre reinforced, fair faced levelling coat, render and profiling mortar, with enhanced waterproofing properties.

ADVANTAGES

- Ideal for use with specialist waterproofing systems such as tanking slurry.
- Fibre re-inforced to give improved tensile and impact strength.
- High bond strength which ensures monolithic performance.
- Suitable for horizontal, vertical and overhead applications.
- Wide range of applications from a single product.
- Economic mortar which generally requires no substrate inter-layer priming.
- Dense matrix provides excellent protection from moisture and chlorides.
- Factory batched mortar which provides consistent quality.

TYPICAL USES

Waterproofing and protection against water and moisture. Mortar for waterproofing, levelling and re-profiling. Fillet at wall/floor/ceiling junctions. Foundations, slabs, retaining walls etc. Drinking water structures when finished with HydraDry Tanking Slurry. High build repair mortar.

TECHNICAL DATASHEET

SUBSTRATE PREPARATION

Substrates:

HydraDry Universal Mortar can be applied to concrete, brick and structural blockwork.

Surface Preparation:

Active water leaks must be stopped using HydraDry WaterStop (rapid setting plugging compound) prior to an application of HydraDry Universal Mortar.

Areas to be levelled, filled or repaired must be clean and free from all unsound materials.

For localised repair, saw cut or cut back the extremities of the repair locations to a depth of at least 10 mm to avoid featheredging and to provide a square edge.

Brickwork and Blockwork:

Remove by suitable means all loose pointing, any remaining render or plaster, wood, dust, grease, oil, organic growth or other foreign materials that may cause contamination or adversely affect adhesion properties.

Concrete:

If there is any exposed steel present, apply two coats of suitable corrosion inhibitor to the exposed steel by brush. Remove all loose material and surface laitencies, i.e. dust, oil, grease, corrosion and organic growth, preferably by using wet grit, water blasting techniques or equivalent methods. The strength of the concrete subbase must be a minimum of 25 N/mm².

Priming:

- Using a brush, roller or spray, apply SBR Latex, mixed 1:1 (by volume) with water.
- Allow to become tacky to the touch. This will take approximately 30 minutes to 2 hours.

MIXING

Required Water Additions

| Size | Water addition range |
|------|----------------------|
| 25Kg | 3 - 4 litres |

When mixing HydraDry Tanking Slurry, use ONLY CLEAN WATER, a clean mixing vessel and a mechanical mixer.

1. Pour 3 litres of clean water into the mixing vessel.
2. Using an electric paddle, gradually start to add the powder.

3. Add all the powder and increase mixing shear.
4. Mix for approx. 1 - 3 minutes to achieve a uniform, lump free consistency.
5. If necessary, gradually add water and mix until desired consistency is achieved. Only add a maximum of 1 litre.

Note: Exceeding the recommended water addition limit will weaken the product and reduce the waterproofing properties of HydraDry Universal Mortar.

APPLICATION

HydraDry Universal Mortar is applied by gloved hand, trowel or suitable spray equipment.

Vertical Surfaces:

HydraDry Universal Mortar is applied at a minimum of 5 mm up to a maximum of 15 mm layer thickness in one working operation.

Apply the product by trowel using a standard rendering technique or spray technique, using traditional wet mortar spraying equipment, ensuring to remove any trapped air. If more than one coat is required to obtain desired build, ensure that previous layers are well keyed and stable but not fully set, prior to application of the subsequent layers. This is achieved between 3 - 12 hours, when mortar feels hard to the touch.

Final profiling to a high quality can be achieved using a steel float after allowing the surface to stabilise. Wooden or plastic floats and damp sponges may also be used to achieve desired surface texture.

Overhead Applications Including Soffits:

When using HydraDry Universal Mortar as a levelling coat, apply at a minimum of 5 mm up to a maximum of 10 mm layer thickness in one working operation. Apply the product by trowel using standard rendering techniques ensuring to remove any trapped air.

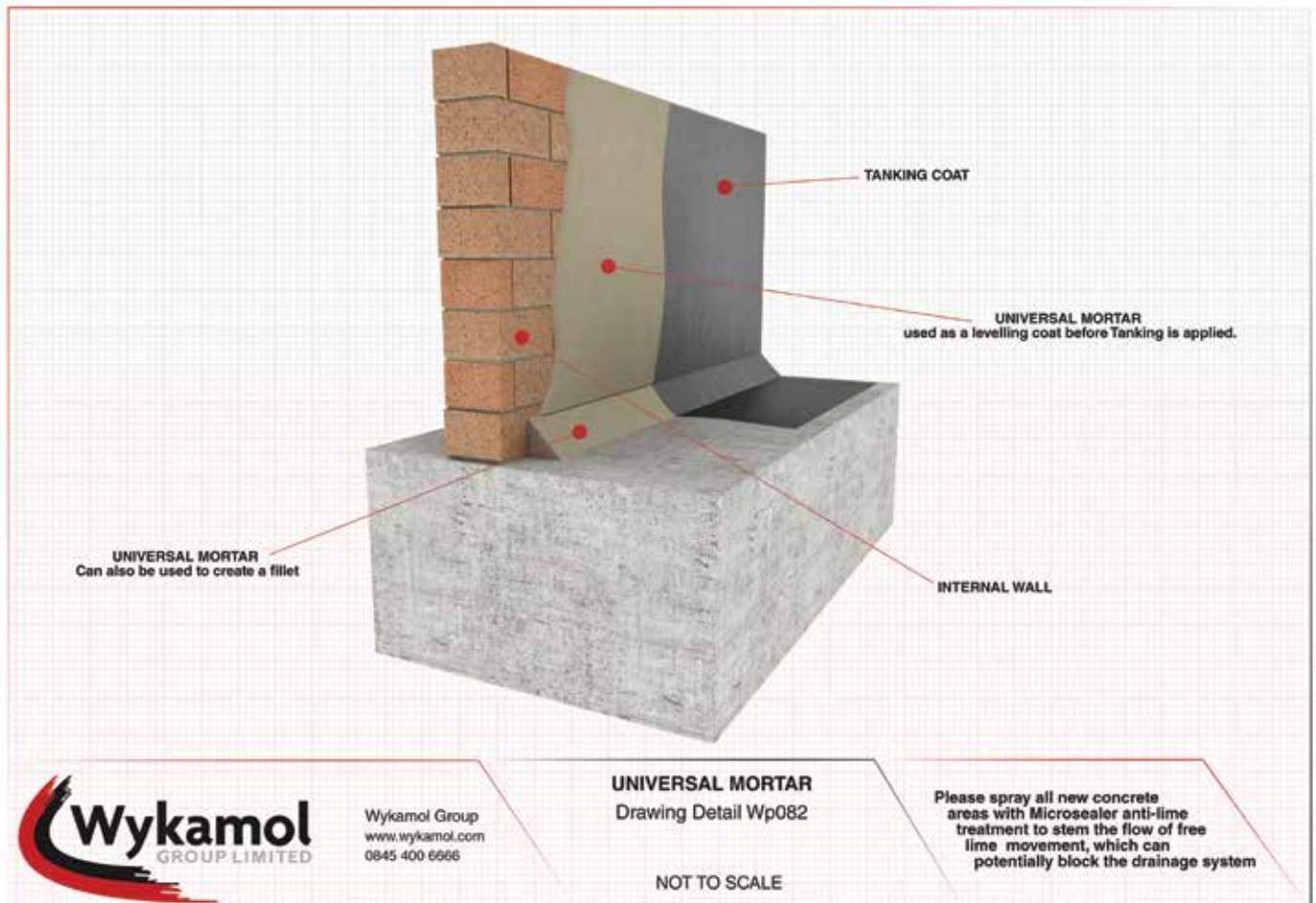
If more than one coat is required to obtain desired build, ensure that previous layers are well keyed and stable but not fully set, prior to application of the subsequent layers. This is achieved between 3 - 12 hours, when mortar feels hard to the touch.

If sagging occurs during application, HydraDry Universal Mortar should be completely removed and reapplied at a reduced thickness onto a correctly prepared substrate.

As Fillet Seal:

Using a bricklaying or pointing trowel, apply a minimum of 25 mm fillet at wall/floor, wall/wall, and if necessary wall/ceiling junctions. Ensure HydraDry Universal Mortar is pressed firmly

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into the chase at the wall/floor joints and joints at the wall/wall. Whilst still green, form a “bottle” cover and feather for 50 - 100 mm along the adjacent surfaces. Achieve a smooth finish to the fillet.

Where excessive stress concentrations can be expected at the wall/floor joints, it is recommended a dilution of Wykamol’s SBR Latex mixed at 1:2 with water (by volume) is used as a gauging solution.

Localised Repair Applications:

Apply HydraDry Universal Mortar to the prepared substrate by gloved hand or trowel. Care must be taken to ensure that an initial 5 - 10 mm thickness of mortar is well placed and adhered prior to building up to larger depths.

Thoroughly compact the mortar onto the prepared substrate and around any exposed reinforcement if present. If necessary, support with shuttering to allow for compaction when working to reveals, etc.

For repairs which require multi-layer application, it is important to ensure that previous layers are well keyed and stable but not fully set prior to application of the subsequent layers. This is achieved between 3 - 12 hours, when mortar feels hard to the touch.

Final profiling to a high quality can be achieved using a steel float after allowing the surface to stabilise.

CONDITIONS & LIMITATIONS

Curing procedures should be strictly adhered to. It is important that the surface of the mortar is protected from strong sunlight and drying winds with either a suitable curing compound, polythene sheeting, damp hessian or similar, for a minimum of 24 hours.

OVERCOATING & FINISHING

HydraDry Universal Mortar is suitable for overcoating, once cured in line with curing and ventilation guidelines. Plastering should take place using Wykamol's Renovation Plaster within two days of the final coat of mortar being applied.

If HydraDry Universal Mortar has been applied as part of a replastering system, after a DPC (damp-proofing course), breathable finishes must be used. If redecoration is to occur 12 months after the DPC installation, non-breathable finishes may be used.

If permanent and impermeable finishes are being considered, e.g. non-breathable paints or wallpaper, the moisture content of the plaster and background must be in line with the recommendations of the suppliers of the chosen finish.

HydraDry Universal Mortar is ready to receive specialist waterproofing systems such as HydraDry Tanking Slurry, within 12 - 24 hours. Always refer to the relevant product data sheet before commencing application.

PACK SIZE AND COVERAGE

| Pack Size | Code | Coverage |
|-----------|---------|---|
| 25Kg | UNIMORT | up to 1.4m ² dependent on substrate |

STORAGE & SHELF LIFE

Store in an upright position, under cover and away from high temperatures and open flames. Shelf life is 6 months from date of manufacture, when unopened, undamaged and stored correctly.

HEALTH AND SAFETY

For further information and advice, please contact the Wykamol Technical Department and consult the safety data sheet, which is available upon request or can be downloaded from our website.



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