

PermaSEAL^{PRO} MP 2C

Multi Purpose Waterproofing



PermaSEAL[®] PRO MP 2C is a high performance multi-purpose, polymer modified thick coating. This highly flexible product is bitumen free but combines the qualities of a bitumen thick coating (PMBC) with a flexible waterproofing grout.

Fast drying with excellent crack-bridging capabilities, this easy to apply waterproof and radon-tight coating is the perfect system for a wide range of structural waterproofing applications. PermaSEAL[®] PRO MP 2C has a high pressure resistance to accommodate load bearing situations and has excellent adhesion to most substrates.

PermaSEAL[®] PRO MP 2C is the perfect 'all-rounder' for below ground waterproofing. It provides reliable protection to the structure for external waterproofing against backfill, internal waterproofing against negative water pressure, waterproofing under walls and in the wall construction, plinth waterproofing and much more.

Application by trowel, brush or airless sprayer gives you the versatility to cover any size project. With excellent workability and feel to the product when applying it by brush or trowel, PermaSEAL[®] PRO MP 2C sets itself apart from similar products on the market.

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PERMASEAL [®] PRO MP 2C	PRODUCT TECHNICAL DETAILS
Size	20kg bucket
Mixing ratio	1kg:1kg
Working time	Approx. 30-40 mins at 23°C and 50% RH
Application conditions	≥ 1°C ≤ 25°C air and substrate temperatures
Drying time	Approx. 24hrs depending on conditions
Rain resistance	After approx. 4hrs at 23°C and 50% RH
Layer thickness	2mm minimum dry layer thickness
Radon tight	At 4mm dry layer thickness
Compressive strength	Class C2A
Crack bridging capacity	Class CB2
Maximum pressure load	2500kN/m ²
Water vapour permeability	μH ₂ O ≥ 849
CO ₂ permeability	Sd CO ₂ > 200 m
Coverage rate	1.4kg/m ² per mm dry film thickness
Water pressure resistance at 3mm thickness	Resistant to water pressures up to 3m below ground or 0.75 bar pressure
Water pressure resistance at 4mm thickness	Resistant to water pressures up to 8m below ground or 2 bar pressure
Fire Class	E

FEATURES

- Flexible polymer thick coating with ETA assessment
- Fast drying
- High UV and frost-resistance
- Crack bridging with high flexibility
- Spreadable consistency by wide brush or trowel and sprayable (spiral pump)
- Application without priming
- Slows carbonation and chloride-proof
- Radon proof
- Storable up to -5°C
- High compressive strength – 2500kN/m²
- Excellent adhesion to prepared surfaces
- Light grey application – dries dark grey
- Application to all mineral based substrates and some non-mineral substrates

PREPARATION, PRIMING, MIXING & APPLICATION

PREPARATION

All contact surfaces must be clean and sound. Remove all loose material, laitance, dust and any previous coatings back to clean brickwork, masonry or concrete. In some instances, old bitumen coatings that are solid can be directly overcoated. All surfaces must be well keyed. If necessary, the substrate can be prepared by suitable mechanical means such as grit blasting, high pressure jet washing or shot blasting.

Any foreign materials in the surface such as nails, timber etc will need to be removed. Any loose joints must be raked out 20mm and any voids must be cleaned.

Once clean, these areas can be filled flush with PermaSEAL® Fillet Seal prior to application of a scratch coat of PermaSEAL® PRO MP 2C. For interior application, any physical water ingress should be stopped with PermaSEAL® Water Stop before overcoating with PermaSEAL® PRO MP 2C.

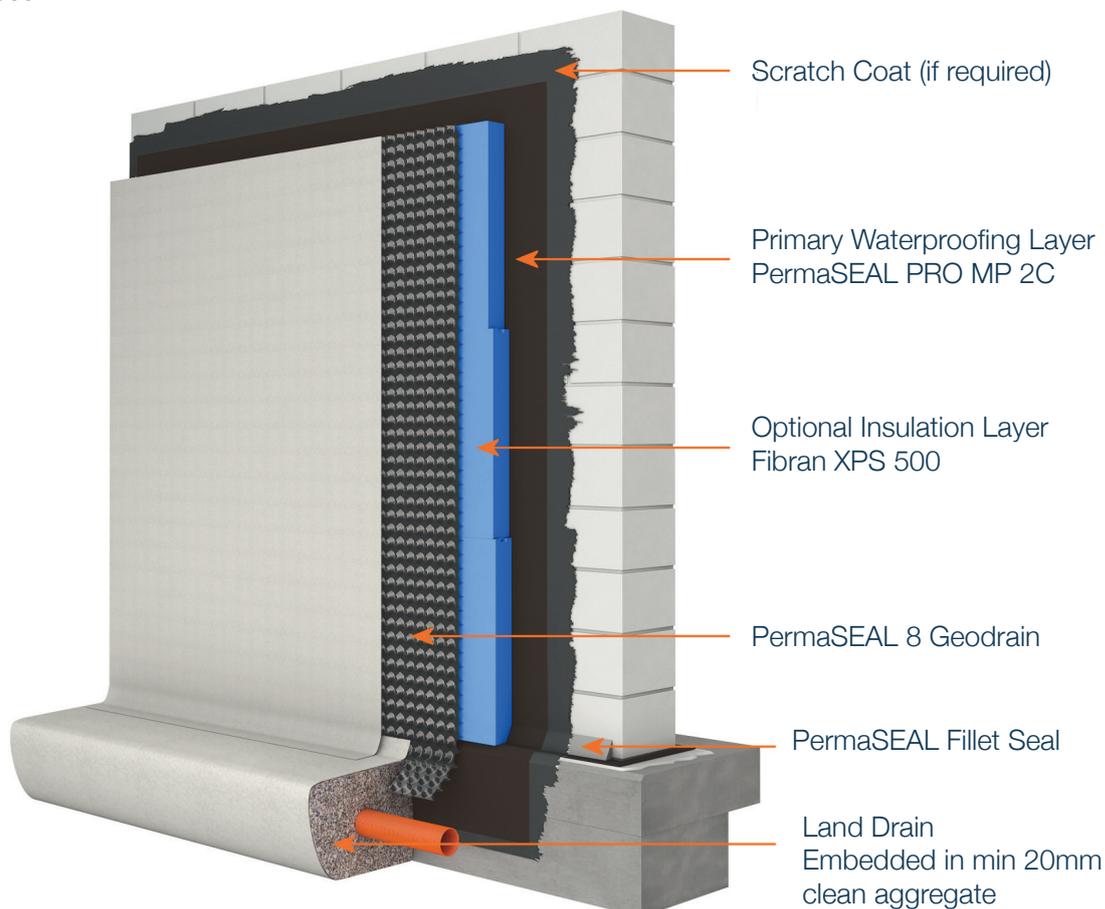
PLEASE NOTE: Surfaces must be smooth and void free, and a scratch coat of PermaSEAL® PRO MP 2C should be applied to all mineral surfaces, making sure to pre-wet the substrate before application of the scratch coat.

USES

- External below ground waterproofing
- Internal below ground waterproofing
- Waterproofing of new builds and existing buildings
- Waterproofing of vertical and horizontal surfaces (basement walls, foundations, base plates, balconies, terraces)
- Plinth waterproofing against splashback
- Bonding layer over old bitumen coatings
- Horizontal waterproofing under walls and in the wall construction
- Bonding below ground external insulation panels
- Sealing of movement joints

PRIMING

In most cases, priming isn't required due to the excellent adhesion capability of the product. Please contact our technical department if you are at all unsure about the suitability of the substrate.



PREPARATION, PRIMING, MIXING & APPLICATION

MIXING

The liquid/paste component and the powder component of PermaSEAL® PRO MP 2C are mixed at a 1:1 ratio into a homogenous paste, at slow speed for at least 3 minutes. Mechanical mixing is recommended using a slow speed high torque drill with a mortar stirrer. Separate the powder and liquid sections of the container. Slowly add the powder to the liquid whilst continuously mixing. Mixing should be continued for three minutes after all the powder has been added to the liquid to obtain a uniform “creamy” consistency. Please note that the mixing time must be strictly followed for optimal product performance.

APPLICATION TYPE & COVERAGE

Type of application	Dry film thickness (mm)	Wet film thickness (mm)	Application rate (kg/m ²)	Total coverage per 20kg (m ²)
Soil moisture with no water pressure, splash water, waterproofing under walls	≥2	2.2	2.8	7.2
Moderate water pressure up to 3m depth	≥3	3.2	4.2	4.8
High water pressure up to 8m depth	≥4	4.2	5.6	3.6
Radon protection	≥4	4.2	5.6	3.6

APPLICATION

PermaSEAL® PRO MP 2C is applied by brush, trowel or sprayer (please contact our technical department for spraying details). The product will turn from light grey to dark grey as it sets. Dark grey is a sign that the next coat can be applied without damaging the previous coat. Once a scratch coat of PermaSEAL® PRO MP 2C has been applied by scraping the trowel across the surface or vigorously brushing a thin coat into the surface (and has turned dark grey), the substrate is ready to receive the first coat.

Apply the first coat by brush or trowel at the desired coverage rate depending on type of application (please see Application Rates). The product will turn from light grey to dark grey as it sets. Dark grey is a sign that the next coat can be applied without damaging the previous coat. Once dry, apply the second coat by brush or trowel at the desired coverage and allow to fully dry for at least 12 hours.

APPLICATION RATES

- Apply at a rate of 1.4kg/m² per mm dry film thickness
- To achieve a minimum dry film thickness of 2mm, apply two coats at 1.4kg/m² per coat.
- To achieve a minimum dry film thickness of 3mm, apply two coats at 2.1kg/m² per coat.
- To achieve a minimum dry film thickness of 4mm, apply two coats at 2.8kg/m² per coat.

PLEASE NOTE: A maximum wet layer thickness of approx. 6mm should be applied. Anything above this is detrimental to the product performance.

APPLICATION NOTES

PermaSEAL® PRO MP 2C must be protected from rain until it is fully rain resistant (approx. 4hrs at 23°C and 50% RH). The coating must dry out completely before being exposed to frost or water penetration. Only apply in temperatures ranging from +5°C to +25°C. Do not apply in significantly rising or falling temperatures. If application of the product has to stop for a prolonged period of time, feather out the coating to zero. When work commences again, overlap the previous coat by a minimum of 150mm. Avoid finishing work for the day at edges or corners. Ensure there is good ventilation when applying the product in confined spaces.

HEALTH AND SAFETY

Refer to latest health and safety data sheet.

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