

# MasterSeal® P 770

Two component primer based on Xolutec for MasterSeal Systems

## DESCRIPTION

**MasterSeal P 770** is a two component primer based on Xolutec, providing high substrate penetration and acting as bond promoter for the subsequent MasterSeal systems, e.g. MasterSeal 7000 CR.

### Xolutec™ - a new dimension in durability

Xolutec is an innovative and smart way of combining complementary chemistries. When the material is mixed on site a cross linked interpenetrating network (IPN) is formed enhancing the overall material properties. By controlling the cross-linking density, the properties of Xolutec can be adjusted depending on the product performance required, e.g. this allows the formulation of materials with varying degrees of toughness and flexibility. Xolutec is very low in volatile organic components (VOC), is quick and easy to apply with both spray and hand application depending on requirements. It cures rapidly even at low temperature, reducing application time thus enabling fast return to service and minimizing downtime.

This technology is not sensitive to moisture and tolerates a wide variety of different site conditions, greatly expanding the application window and reducing the potential for delays and failures. Long maintenance cycles and lower life cycle costs significantly reduce total cost of ownership.

## RECOMMENDED USES

**MasterSeal P 770** is used as primer on mineral substrates for MasterSeal systems. The primer coat will improve the adhesion and prevent the appearance of pinholes or bubbles in the subsequent hardened coating.

## FEATURES AND BENEFITS

- **Low viscosity** - easy to apply
- **Excellent penetration** - Seals pores and capillaries
- **Moisture tolerant** - can be applied on substrates with high residual humidity
- **Excellent bond to substrate** - can be applied to a wide range of substrates

## APPROVALS

- CE Certification as Primer for MasterSeal M 790 in the system MasterSeal 7000 CR according to EN 1504-2.

## APPLICATION

### Surface Preparation

All substrates (new and old) must be structurally sound, dry, free of laitance and loose particles and clean of oil, grease, rubber skid marks, paint stains and other adhesion impairing contaminants.

Concrete: The surface should be prepared by shot blasting, high-pressure water jetting or other suitable mechanical method. After preparation, concrete and other cementitious substrates must have a minimum pull off strength of 1 N/mm<sup>2</sup>. Very rough / irregular substrates on walls should be levelled before application with a suitable fairing coat, e.g. **MasterEmaco N 5100**. On floors a suitable repair or levelling solution should be used. Wall/Floor connections must be rounded by using suitable products e.g. **MasterEmaco N 5200CI**.

The substrate should be visibly dry - there is no limit to residual humidity. Substrate temperature must be minimum +5 °C and maximum +35 °C. The temperature of the contact surfaces must be at least 3 C above the ambient dew point temperature.

### Mixing

**MasterSeal P 770** is supplied in working kits which are pre-packaged in the exact mixing ratio. Pour the entire content of Part A into the container of Part B and mix with a mechanical drill and paddle at low speed (max. 400 rpm) for at least 3 minutes. Scrape the sides and the bottom of the container several times to ensure complete mixing. Keep the mixer blades submerged in the coating to avoid introducing air bubbles.

**Do not mix part packs and do not mix by hand!**

### Application

After mixing, **MasterSeal P 770** is applied to the prepared substrate by brush or roller. The curing time of the material is influenced by the ambient, material and substrate temperatures.



We create chemistry

# MasterSeal® P 770

At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the pot life, open time and curing times are shortened accordingly. To fully cure, the material, substrate and application temperature should not fall below the minimum. The temperature of the contact surfaces must be at least 3 C above the ambient dew point temperature.

**MasterSeal P 770** dries as an intense transparent film (within 12 hours @ 20° C). In case there are holes not covered by primer, please apply a second coat of primer.

Wait for at least 12 hours (@ 20° C) before applying MasterSeal systems.

Tools can be cleaned with solvent-based cleaner while still wet. Once cured, the material can only be removed mechanically.

## ESTIMATING DATA

The consumption of **MasterSeal P 770** is approximately 0.25 (210 microns) – 0.4(330 microns) kg/m<sup>2</sup>.

This consumption is theoretical and can vary according to the absorption and roughness of the substrate. It is essential to carry out representative trials on site to evaluate the exact consumption.

| MasterSeal M 770 Wet Film thickness |                                 |                |                       |                              |
|-------------------------------------|---------------------------------|----------------|-----------------------|------------------------------|
| L                                   | Thickness in mm /m <sup>2</sup> | m <sup>3</sup> | pails /m <sup>3</sup> | m <sup>2</sup> /mm thickness |
| 4.15                                | 4.15mm                          | (0.00415)      | 241                   | 4.15 m <sup>2</sup>          |
| 7.5L                                | 7.5mm                           | (0.0075)       | 133                   | 7.5 m <sup>2</sup>           |

## PACKAGING

MasterSeal P 770 is available in 5kg kits consisting of 2.2kg Part A and 2.8 kg Part B. as well as 9 kg Kits consisting of 4kg Part A and 5 kg Part B.

## SHELF LIFE

**MasterSeal M 790** has a shelf life of 12 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.

## PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Safety Data Sheet (SDS) from our office or our website.

# MasterSeal<sup>®</sup> P 770

| TECHNICAL DATA   |   |                   |  |
|--|---|-------------------|--|
| Property   | Standard  | Unit              | Data   |
| Density of mixed material<br>Part A<br>Part B<br>mixed   | EN ISO 2811-1   | g/cm <sup>3</sup> | approx. 1.3<br>approx. 1.2<br>approx. 1.2            |
| Viscosity of mixed material<br>Part A<br>Part B<br>mixed   | EN ISO 3219   | mPas              | approx. 1140<br>approx. 125<br>approx. 650           |
| Application temperature (substrate and material)   | -   | °C                | from +5 to +30                                       |
| Maximum substrate moisture (during application)  | not restricted, but no condensation of water on the surface |                   |  |
| Maximum relative humidity (during application)   |   | %                 | ≤ 75 (at +10 °C)<br>≤ 85 (at +20 °C)                 |
| Pot-life<br>at +5 °C<br>at +10 °C<br>at +20 °C<br>at +30 °C  |   | minutes           | approx. 30<br>approx. 25<br>approx. 20<br>approx. 10 |
| Dry to touch<br>at +20°C   |   | hours             | approx. 6  |
| Ready for pedestrian traffic / Re-coating interval<br>at +10 °C<br>at +20 °C<br>at +30 °C  |   | hours             | min. 11<br>min. 5<br>min. 2                          |
| Fully cured<br>at +10 °C<br>at +20 °C<br>at +30 °C   |   | days              | 7<br>5<br>2  |
| Glass transition temperature after 28 days   | EN 12614  | °C                | 55   |
| Adhesion to concrete after 28 d  | EN 1542   | N/mm <sup>2</sup> | > 2.0  |
| Adhesion in combination with subsequent layers of<br>- MasterSeal M 790 (Xolutec)<br>- MasterSeal M 878 (polyurea, hot-spray)<br>- MasterSeal M 820 (polyurea-hybrid, hot-spray) | EN 1542   | N/mm <sup>2</sup> | > 2.5<br>> 2.5<br>> 3.0                              |

**Note:** Data are measured at 21°C ± 2°C and 60% ± 10% relative humidity if not stated differently. Higher temperatures and/or higher relative humidity can shorten hardening/curing times, and vice versa. Technical data shown are statistical results and do not correspond to guaranteed minima. Tolerances are those described in appropriate performance.



We create chemistry

# MasterSeal<sup>®</sup> P 770

---

MasterSeal-P-770 ANZ-V3-1017

---

**STATEMENT OF RESPONSIBILITY**

The technical information and application advice given in this BASF publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

---

**NOTE**

Field service where provided does not constitute supervisory responsibility. Suggestions made by BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.

---

**BASF Australia Ltd**  
ABN 62008437867  
Level 12  
28 Freshwater Place  
Southbank VIC 3006  
**Freecall: 1300 227 300**  
[www.master-builders-solutions.basf.com.au](http://www.master-builders-solutions.basf.com.au)

**BASF New Zealand Ltd**  
Level 4, 4 Leonard Isitt Drive  
Auckland Airport 2022  
Auckland, New Zealand  
**Freecall: 0800 334 877**  
[www.master-builders-solutions.basf.co.nz](http://www.master-builders-solutions.basf.co.nz)

**BASF Emergency Advice:**  
1800 803 440 within Australia (24hr)  
0800 944 955 within New Zealand

---