

# MasterShield PR 170 (formerly BluRez 777UHD)

High Performance Stain Resistant Polyurethane Coating

## Material Description

MasterShield PR 170 is a two-component, water-based polyurethane coating that resists stains and provides long-term protection for exterior use.

MasterShield PR 170 can be applied as a scuff resistant or anti-graffiti protective finish, either directly to concrete surfaces, or used as a topcoat over MasterShield AC 150/160 anti-carbonation coatings, MasterShield PEL 1100/1150 & MasterShield CI 8600PEL hydrophobic and chloride resistant sealers.

## Areas of Application

MasterShield PR 170 suits retail, commercial, industrial and infrastructure applications, including:

- External concrete walls and architectural features
- Anti graffiti protection for public spaces
- Infrastructure assets requiring a protective topcoat
- Reservoir exteriors and other exposed concrete

## Characteristics and Benefits

- Environmental friendly- Non-hazardous, non-flammable, water-based and low VOCs for safer application.
- Long-lasting durability for extended concrete protection - Excellent scuff, abrasion, and stain resistance for high-traffic areas.
- User friendly- Easy application by roller or airless spray with strong adhesion.
- Fire safety and regulatory Compliance- Meets BCA CRF fire standard.
- Compatible with MasterShield protective coatings and sealers.

## Properties

Mixing Ratio (A:B)	4: 1 by volume
Working Time	60 minutes @ 25°C
Recoating Time	16-24 hours @ 25°C
Full Cure	7 days
Volume Solids Content	65% (varies with water addition)
Typical Application Rate	8-10 m <sup>2</sup> /per coat

## Application

### Preparation

For direct application over concrete, ensure the concrete is at least 28 days old. The surface must be clean, dry and sound, free of curing compounds, oils, grease and other contaminants. Prepare by professional diamond grinding to achieve the surface profile at least CSP 2.

When over-coating previously applied MasterShield coatings/sealers, ensure the surfaces are clean, dry and free of any contamination and less than 24 hours old.

In conditions where the prepared surface requires additional consolidation, consider a primer. Consult with your local Master Builders Solution representative for product recommendation.

### Mixing

Use a slow speed mechanical mixer (about 400 rpm) and mix thoroughly.

Add MasterShield PR 170 Part B into Part A while mixing. Continue for at least 3 minutes until uniform.

For the first coat only, adjust viscosity with up to 15% potable water if required.

### Application

Apply evenly by roller or airless spray over the prepared surface at 8 to 10 m<sup>2</sup> per litre.

Maintain a wet edge; higher temperatures and air movement reduce wet edge time.

Discard material once the work time has elapsed (about 60 minutes at 25 °C); track the actual time rather than appearance.

# MasterShield PR I70 (formerly BluRez 777UHD)

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Allow the coating to cure for 7 days prior to subjecting to full exposure.

Do not apply when RH is greater than 80% or when temperature is below 12 °C.

Note: Colour change due to fading is a natural and expected form of paint degradation however it can also be easily confused with or exacerbated by other issues, such as environmental contamination which will also cause a noticeable change in appearance.

## Estimating Data

18L pack theoretical coverage is 140-180 m<sup>2</sup> per coat.

Note: minimum two coats at 8-10m<sup>2</sup>/lt per coat required.

## Packaging

MasterShield PR I70 is available in 18 litre kits:

Part A – 14.4 litres

Part B – 3.6 litres

## Storage & Shelf Life

Store in cool and dry warehouse conditions. Shelf life in these conditions is 12 months in unopened original bags.

## Precautions

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

## Disclaimer

MasterShield-PR I70-ANZ-VI-0325

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