

Monoseal WB

Water based high performance acrylic concrete sealer



DESCRIPTION

Monoseal WB is a clear, water-base acrylic emulsion designed to seal and dustproof interior and exterior concrete floors, decks, and masonry surfaces in light to medium duty trafficable areas.

Monoseal WB - Glossy is a specially formulated grade of Monoseal WB that provides a glossy finish for the substrate.

APPLICATION

Monoseal WB is used to seal and dustproof new and old concrete substrates in low to medium duty trafficable areas such:

- » Storage warehouses.
- » Industrial and commercial floors.
- » Walkways.
- » Other areas subjected to regular foot traffic or rubber wheeled equipment.

Moreover, Monoseal WB can be also used to seal vertical surfaces such as concrete walls and columns or masonry surfaces. It can be used as a sealer and dustproof over Cemflow range of cementitious floor toppings from DCP.

ADVANTAGES

- » High exterior and interior durability.
- » Improves the abrasion resistance of concrete floors.
- » Good water and stain resistance, prevents penetration of oils and liquids.
- » Excellent resistance to dust and dirt pick up.
- » Improves concrete and mortar curing by protecting the cement hydration.
- » Easy to apply.
- » Easy to clean and to maintain; can be overcoated.
- » Low VOC content; complies with LEED requirements.
- » Glossy finish, Monoseal WB - Glossy.

STANDARDS

Monoseal WB complies with ASTM C1028.

METHOD OF USE

SUBSTRATE CONDITION

The substrate must be clean, dry, even, dense and free from oil, grease, dust and other contaminants. A clean surface will ensure maximum adhesion between the substrate and the sealer.

TECHNICAL PROPERTIES @ 25°C:

Colour:	Clear, can be coloured upon request
Density:	1.02 ± 0.05 g/cm ³ (for clear colour)
Solid content:	By volume 31 ± 2% By weight 35 ± 2%
Bond strength: ASTM D4541	≥ 5 MPa (substrate failure on C50/60 Concrete Grade)
Minimum time between coats:	30 min @ 20°C
Maximum time between coats:	3 hr @ 20°C
Application temperature:	10 to 35°C
Dry hard time:	3 hr @ 20°C
Foot traffic time:	24 hr
Light vehicle traffic time:	72 hr
Gloss @ 60°C: (Monoseal WB) (Monoseal WB - Glossy)	> 48 > 65 (depending on substrate)
UV resistance:	Good
Static coefficient of friction: ASTM C1028 (on level surfaces)	0.71
Taber abrasion resistance: (1000 g, 500 cycle) ASTM D4060, weight loss CS17 wheels	70% (Enhancement in resistance to weight loss compared to a control concrete sample)
VOC: ASTM D2369	< 50 g/ltr (comply with LEED)



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SURFACE PREPARATION

Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment.

Acid etching can be used only in well ventilated areas. Areas deeply contaminated by oil or grease, such areas should be treated by hot compressed air.

All exposed blow holes should be filled with a suitable concrete repair product available at DCP.

APPLICATION

Apply Monoseal WB with a low pressure spray to the prepared surfaces, brush and roller can be used for small areas. Apply 2 coats of Monoseal WB at 7 m²/kg/coat; The second coat should be applied at a right angle to the first coat.

The second coat may be applied as soon as the first coat has initially dried. Drying time will depend on the substrate and the ambient conditions. If the over coating time is exceeded the first coat must be abraded with sand paper prior to the application of the second coat.

Adequate ventilation must be provided to ensure that necessary drying and curing of the material is achieved.

LIMITATIONS

- » Monoseal WB should not be applied onto surfaces known to suffer from damp rising or relative humidity greater than 80% (maximum moisture content of 4%).
- » Monoseal WB should not be applied at temperatures below 10°C.
- » Do not apply if rain is expected within 8 hours.
- » Monoseal WB is not intended to waterproof concrete or to bridge cracks and does not seal inaccessible areas.
- » Monoseal WB should not be subjected to prolonged exposure to water; ponded water should be avoided for floors sealed with Monoseal WB.
- » Coloured Monoseal WB should not be applied under direct sunlight to avoid any peeling or bubbling issues in the sealed surfaces.

CLEANING

Tools and equipment can be cleaned with water when product is still wet. Dried Monoseal WB can be removed with DCP Solvent.

OCCASSIONAL SPILLAGE

Chemical Resistance after 24 hours @ 25°C, ASTM D1308 (Spot test @ 1 hr)

Lactic Acid	RH
Oleic Acid (sat.)	RH
Citric Acid 25%	R
Acetic Acid 5%	RH

Inorganic Bases

Sodium Hydroxide 50%	R
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Aqueous Solutions

Distilled Water	R
Chlorinated Water	R
Detergent & Soaps	R

Solvents

White Spirit	SS
Xylene	SS
Acetone	RS
Methoxy Propanol	SS

Oils & Fuels

Brake Fluid	RS
Gasoline	SS
Diesel	RS
Vegetable Oil	R
Thermal Mineral Oil	R

Inorganic Acids

Sulphuric Acid 25%	R
Nitric Acid 10%	RS

R: Resistant

RS: Resistant with slight discoloration

RH: Resistant with slight hardness

SS: Slight softening



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PACKAGING

Monoseal WB is available in 5, 25 and 200 litre drums.

COVERAGE

The coverage rate is 35 m²/5 kg pack/coat to achieve dry film thickness of 50 microns/coat.

STORAGE

Store in a dry area out of direct sunlight at temperatures between 5°C and 35°C.

SHELF LIFE

Monoseal WB has a shelf life of 12 months from date of manufacture if stored in dry conditions in original unopened packs.

If these conditions are exceeded, DCP Technical Department should be contacted for advise.

CAUTIONS

HEALTH AND SAFETY

As with all acrylic paints, care should be taken during use and storage to avoid contact with skin, eyes and mouth. Wear suitable protective clothing, gloves and eye/face protection.

Should accidental skin contact occur, remove immediately with plenty of clean water. If swallowed, seek medical attention immediately - do not induce vomiting.

For further information refer to the Material Safety Data Sheet.

FIRE

Monoseal WB is water based and nonflammable.
DCP Solvent is flammable. Ensure adequate ventilation.
Do not use near a naked flame and do not smoke during use.



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A wide range of construction chemical products are manufactured by DCP which include:

- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.



Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.