

Setseal Mono WB

Water based high performance acrylic concrete sealer (Formerly known as Monoseal WB)



Description

Setseal Mono WB is a clear, water-based acrylic emulsion designed to seal, dustproof and add an attractive gloss to interior and exterior concrete floors, decks, and masonry surfaces in light to medium duty trafficable areas.

Application

Setseal Mono WB is used to seal and dustproof new and old concrete substrates in low to medium duty trafficable areas such as storage warehouses, industrial and commercial floors, walkways or any other areas subjected to regular foot traffic or rubber wheeled equipment.

Setseal Mono WB can be also used to seal vertical surfaces such as concrete walls and columns or masonry surfaces.

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.
- ▲ UV stable, non-yellowing.

Standards

Setseal Mono WB complies with the yellowing resistance requirements of ASTM C1315 when tested for weathering according to ASTM G53.

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:

Colour:	Clear
Specific gravity:	1.02 ± 0.05
Solid content:	
By volume	33 ± 2%
By weight	35 ± 2%
Bond strength: ASTM D4541	≥ 5 MPa (substrate failure on C50/60 Concrete Grade)
Application temperature:	41 to 95°F (5 to 35°C)
Drying time: (overcoating time)*	2 - 3 hr @ 68°F (21°C)
Foot traffic time:*	12 hr
Light vehicle traffic time:*	72 hr
UV resistance:	Excellent
Static coefficient of friction: ASTM C1028 (on level surfaces)	0.71
Taber abrasion resistance: (1000 g, 500 cycle) ASTM D4060, CS17 wheels	70% enhancement over uncoated concrete
VOC: ASTM D2369	< 50 g/ltr (complies with LEED)

* Depending on temperature, humidity and wind exposure.

Surface Preparation

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

Don Construction Products Inc.
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USA



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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 Setseal Mono WB with a low pressure spray to the prepared surfaces, brush and roller can be used for small areas. Apply first coat of Setseal Mono WB at a rate of 200 - 300 ft²/gal (4.9 - 7.4 M²/L).

Allow first coat to dry then apply the second coat at a rate of 400 - 600 ft²/gal (9.8 - 14.7 M²/L). Second coat should be applied at a right angle to the first coat.

Drying time will depend on the substrate and the ambient conditions. Adequate ventilation must be provided to ensure that necessary drying and curing of the material is achieved.

Limitations

- ▲ Setseal Mono WB should not be applied onto surfaces known to suffer from damp rising or relative humidity greater than 80% (maximum moisture content of 4%).
- ▲ Setseal Mono WB should not be applied at temperatures below 41°F (5°C).
- ▲ Do not apply if rain or snow is expected within 24 hours.
- ▲ Setseal Mono WB is not intended to waterproof concrete or to bridge cracks and does not seal inaccessible areas.
- ▲ Setseal Mono WB should not be subjected to prolonged exposure to water; ponded water should be avoided for floors sealed with Setseal Mono WB.

Cleaning

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

Occasional 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

Packaging

Setseal Mono WB is available in 5 gal (18.9 ltr) pails, 55 gal (208.2 ltr) drums and 275 (1041 ltr) totes.

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Coverage

The coverage rate is 660 ft² - 990 ft² per 5 gallon pail (61.5 - 92.5 m² per 18.9 liter pail), when applied in two coats in the following rates:

- ▲ First coat: 200 - 300 ft²/gal (4.9 - 7.4 M²/L).
- ▲ Second coat: 400 - 600 ft²/gal (9.8 - 14.7 M²/L).

Storage

Store in a dry area out of direct sunlight at temperatures between 41°F and 95°F (5°C and 35°C).

Shelf Life

Setseal Mono 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

Setseal Mono 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.

Flash point:
DCP Solvent: 99°F (37°C).

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- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
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- ▲ Tile adhesives and grouts.
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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.

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