

# Monoseal

High solids acrylic floor and wall sealer and curing compound [Formerly known as Quickmast 173AC]



## DESCRIPTION

Monoseal is a high solid floor and wall sealer, dustproof and curing compound based on solvent borne acrylic resin. The product is ideal for using internally and externally over decorative plasters, masonry surfaces, stamped concrete and concrete floors in light to medium duty trafficable areas.

Monoseal is also used as a curing compound and sealer for freshly placed concrete to retain sufficient moisture to ensure full hydration of the cement, while providing excellent adhesion to a variety of plasters and coatings. Monoseal can be used as "look enhancer" of natural stone and decorative plasters and coatings.

## ADVANTAGES

- » Durable finish that seals concrete and natural stone surfaces preventing penetration of oils and liquids.
- » Dust proof.
- » Abrasion enhancement.
- » Improves concrete and mortar curing by protecting the cement hydration.
- » Excellent adhesion to all types of plasters and coatings, such as cement and acrylic plasters and epoxy resin based products.
- » Easy application.
- » Cost effective.
- » Available in clear colour, and can be coloured upon request.

## STANDARDS

Monoseal complies with ASTM C309, Type I, Class A and B, and ASTM C1315, Type I, Class A.

## METHOD OF USE

### SUBSTRATE PREPARATION

The substrate must be sound, 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 coating.

Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment. Areas contaminated with oil or grease, should be treated with hot compressed air.

### COATING

#### Old concrete:

Apply using brush or lambs wool roller, or airless spray machine. Apply 2 coats of Monoseal onto old concrete floors at a rate between 8 - 10 m<sup>2</sup> /litre.

## TECHNICAL PROPERTIES @ 25°C (CLEAR COLOUR):

Colour:	Clear, can be coloured upon request
Density:	0.92 ± 0.05 g/cm <sup>3</sup>
Solids:	25 ± 2%
Viscosity: Brook field	1 ± 0.5 poise
Tack free time:	40 - 50 min
Foot traffic:	4 hr
Time between coats:	2 - 36 hr/clean substrate
Bond strength over C25/30 concrete: ASTM D4541	> 2 MPa (concrete failure)
UV Resistance:	Good
Moisture loss after 72 hr: ASTM C156	< 0.55 kg/m <sup>2</sup> (pass)
Water retention: ASTM C156	≥ 75%
VOC: ASTM D2369	≤ 700 g/ltr

#### New concrete:

For use as curing compound, apply in a single coat at a rate of 8 - 10 m<sup>2</sup>/litre. Second coat is optional.

Monoseal in general, comes as a clear liquid. However, for some special cures, it can be coloured. Clear Monoseal cures to clear glossy film. It is a UV stable, and after curing, it gives a wet look (colour enhancer) on substrates.

#### Notes:

- » Avoid applying under direct sunlight.
- » Monoseal cannot prevent the underlying substrate from yellowing if the substrate itself tends to yellow after exposure to UV light or sunlight.

## CLEANING

Tools and equipment can be cleaned with DCP Solvent. Dried Monoseal should be removed mechanically.

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## PACKAGING

Monoseal is available in 4, 18 and 200 litre drums.

## COVERAGE

The coverage rate is 8 - 10 m<sup>2</sup>/litre, depending on concrete porosity.

*Note: It is advisable to avoid over spreading of Monoseal on substrates.*

## STORAGE

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

## SHELF LIFE

Monoseal has a shelf life of 18 months from date of manufacture if stored in proper conditions and un-opened packs.

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

## CAUTIONS

### HEALTH AND SAFETY

Monoseal should not come in contact with skin and eyes.

In case of accidental splashes to the eyes, rinse thoroughly with clean water and seek medical advise. Suitable protective gloves and goggles should be worn. Do not use solvent to clean Monoseal from skin.

For further information refer to the Material Safety Data Sheet.

## FIRE

Monoseal and DCP Solvent are flammable. Ensure adequate ventilation. Do not use near a naked flame and do not smoke during use.

*Flash Point:*  
DCP Solvent: 37°C.

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## OCCASSIONAL SPILLAGE

**Chemical Resistance after full cure (7 days @ 25°C), ASTM D1308 (Spot - test @ 24 hr)**

### Organic Acids

Lactic Acid 40%	R
Oleic acid	R
Acetic acid	R

### Inorganic Bases

Sodium Hydroxide 20%	R
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### Inorganic Acids

Hydrochloric Acid 15%	R
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### Aqueous Solutions

Sodium Chloride 3.5%	R
Water	R
Distilled Water	R
Detergents and Soap	R

### Oils & Fuels

Diesel	R
Jet Fuel	R
Waste engine oil	R
Break Fluid	R
Gasoline	R
Vegetable Oil	R

### Solvents

Ethanol 76%	R
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*R: Resistant*

## MORE FROM DON CONSTRUCTION PRODUCTS

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.

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DCP Building Excellence