

Setseal A

Multipurpose resin based concrete curing compound [Formerly known as Setcrete A]



DESCRIPTION

Setseal A is a single component, acrylic resin based, coating designed to impregnate concrete surfaces combining the benefits of a curing aid and hardener.

Setseal A is designed to overcome drawbacks of many commonly used curing membranes that tend to provide a limited service life following the curing period of new concrete. It has good abrasion resistance and is compatible with several types of coatings.

APPLICATIONS

Setseal A is mainly used for newly cast concrete and cementitious surfaces to retain sufficient moisture to ensure full hydration of the cement. Typical application areas include:

- » High rise construction to eliminate water curing.
- » Runways and roads.
- » Roof decks.
- » Retaining walls.
- » Irrigation canals.
- » General floor slab and columns.

ADVANTAGES

- » Recoatable.
- » Non-degradable, single component.
- » Enhanced concrete durability.
- » Increase the surface abrasion resistant by 60%.
- » UV resistance.
- » Helps achieve concrete desired strengths.
- » Minimizes potential surface cracking and shrinkage.
- » Promotes a harder dust free surface.
- » Can be spray applied to reduce labor cost.
- » Maintains the anti-static characteristics of the concrete surface.

OVERCOATING

Setseal A can be over coated with the following:

- » Polymer modified cementitious paint.
- » Acrylic paints.
- » Some epoxy based coatings that are not dependable on penetration for surface bond.
- » Bituminous emulsion paints.

Note: consult with DCP's Technical Department to check if a certain epoxy coating from DCP can be applied over Setseal A.

TECHNICAL PROPERTIES @ 25°C:

Colour:	Clear liquid
Specific gravity:	0.9 ± 0.05
Cure time at 50% relative humidity:	
Tack free	3 - 4 hr
Full cure	24 hr
Curing efficiency: BS 7542	> 75%
Water loss: ASTM C156	< 0.55 kg/m ²

TECHNICAL PROPERTIES EN 1504-2 REQUIREMENTS

Permeability to water vapour: EN ISO 7783-2	Class I: SD < 5m
Capillary absorption and permeability to water: EN 1062-3	< 0.1 kg/m ² h ^{0.5}
Adhesion strength by pull-off test: EN 1542	≥ 1.5 MPa
Thermal compatibility: EN13687	≥ 1.5 MPa
Depth of carbonization: EN 14630	≥ 5 mm
Impact resistance: EN ISO 6272-1	Class III: ≥ 20 N.m

STANDARDS

Setseal A complies with:

- » AASHTO M148.
- » ASTM C309, Type I, Class A and B.
- » EN 1504-2, Principle 1.2.

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Setseal A

METHOD OF USE

Setseal A can be spray applied or applied using a short-haired roller as soon as possible to the fresh concrete, provided that the surface water has evaporated. Do not apply if bleed water is forming, or is present on the concrete surface.

Stir Setseal A well before use to ensure even pigment dispersion. When spray applying, the spray nozzle should be held approximately 450 mm from the concrete surface and passed back and forth to ensure complete coverage. Pump pressure should be maintained to give an even, fine spray. When using a roller, apply evenly to achieve a continuous film without ponding.

The applied film should be protected from rain for at least 3 hours; care should be taken to ensure that the film is not broken. In case of formed concrete, Setseal A should be applied immediately after de-shuttering. In such a case the concrete surface must be dampened with clean water prior application of Setseal A.

REMARKS

- » Setseal A minimum application temperature is 5°C.
- » Setseal A can be applied on dry and old mineral substrates as a sealer and protective abrasion resistance coat. Doing this will result in deepening the substrate colour with semi gloss finish.
- » Water based curing compounds are also available from DCP.

CLEANING

Tools and equipment can be cleaned with soaped water when wet. Dried Setseal A should be removed with DCP Solvent.

PACKAGING

Setseal A is available in 18 litre and 200 litre drums.

COVERAGE

The recommended coverage rate is 6 - 10 m² per litre.

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STORAGE

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

SHELF LIFE

Setseal A has a shelf life of 12 months from date of manufacture if stored in proper conditions in un-opened drums.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Setseal A should not come into contact with skin or eyes. In case of accidental splashes to the eyes, rinse with clean water and seek medical advice. Suitable protective gloves and goggles should be worn.

For further information, refer to the Material Safety Data Sheet.

FIRE

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

Flash Point:
Setseal A: 40°C.
DCP Solvent: 37°C.

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.