

Setseal AW309

Multipurpose acrylic based concrete curing compound



Description

Setseal AW309 is a single component, acrylic resin based curing compound designed to impregnate concrete surfaces combining the benefits of a curing compound and hardener.

Setseal AW309 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 AW309 is mainly used for newly cast concrete and cementitious surfaces that contain GGBFS, PFA, microsilica, dry shake hardeners or limestone 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.
- ▲ 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.
- ▲ Non toxic.

Overcoating

Setseal AW309 can be over coated with the following:

- ▲ Polymer modified cementitious paint.
- ▲ Acrylic paints.
- ▲ Bituminous emulsion paints.
- ▲ Cosmetic cementitious repair materials from DCP.

Technical Properties:

Colour:	Clear (upon drying) or white pigmented
Specific gravity:	1.01 ± 0.02
Application temperature:	41 to 95°F (5 to 35°C)
Tack-free time:*	2 - 3 hr @ 68°F (20°C)
Full curing time:*	24 hr @ 68°F (20°C)
VOC:	< 100 g/ltr (complies with LEED)

**Depending on temperature, humidity and wind exposure.*

- ▲ It is recommended to remove Setseal AW309 by water jetting or light sand blasting before application of materials other than mentioned above.

Standards

Setseal AW309 complies with AASHTO M-148 and ASTM C309 , Type I and II, Class A and B.

Method of Use

Setseal AW309 should be spray applied 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 AW309 well before use to ensure even pigment dispersion.

Setseal AW309 should be spray applied, the spray nozzle should be held approximately 18" (457 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.

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 AW309 should be applied immediately after de-shuttering. In such a case the concrete surface must be dampened with clean water prior application of Setseal AW309.

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Remarks

- ▲ Setseal AW309 minimum application temperature is 41°F (5°C).
- ▲ Solvent based curing compounds are also available from DCP.

Cleaning

Tools and equipment can be cleaned with soaped water when wet. Dried Setseal AW309 should be removed with DCP Solvent.

Packaging

Setseal AW309 is available in 5 gal (18.9 ltr) pails, 55 gal (208.2 ltr) drums and 275 (1041 ltr) totes.

Coverage

The recommended coverage rate is 200 ft²/gal (4.9 m²/liter) applied in one coat.

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 AW309 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, DCP Technical Department should be contacted for advise.

Cautions

Health and Safety

Setseal AW309 should not come into contact with skin or eyes. In case of accidental splashes to the eyes, rinse with clean water and seek medical advise. Suitable protective gloves and goggles should be worn.

For further information refer to the Material Safety Data Sheet.

Fire

Setseal AW309 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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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:

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