

Setseal 44

Water based paraffin dispersion concrete curing compound (Formerly known as Setcrete 44)



Description

Setseal 44 is a water based wax emulsion curing compound formulated from selected materials to form a low viscosity curing compound.

Setseal 44 is supplied as clear and white pigmented colours, the clear colour is a white liquid, which forms a wet white film when applied to concrete surfaces, this dries to form a transparent film. The white pigment colour is a white milky liquid, which forms a white film after drying and reflect 60 – 80% of the sunlight providing the recommended coverage has been maintained.

Applications

Setseal 44 is used mainly for newly cast concrete and cementitious surfaces to retain sufficient moisture to ensure full hydration of the cement. Typical application areas include:

- ▲ Runways and roads.
- ▲ Roof decks.
- ▲ Retaining walls.
- ▲ Irrigation canals.
- ▲ Concrete floors.
- ▲ Concrete tanks.

Advantages

- ▲ Helps achieving concrete desired strengths.
- ▲ Minimizes potential surface cracking and shrinkage.
- ▲ Promotes a harder dust free surface.
- ▲ Single component.
- ▲ Can be spray applied to reduce labor cost.

Standards

- ▲ Setseal 44 complies with AASHTO M148 and ASTM C309, Type I and 2, Class A.
- ▲ Water retention (kg / m²) < or = 0.55.
- ▲ Setseal 44 is suitable for use in contact with potable water when tested in accordance to BS 6920.

Method of Use

Setseal 44 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 44 well before use to ensure even pigment dispersion. Setseal 44 should be spray applied, 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.

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 44 should be applied immediately after de-shuttering. In such a case the concrete surface must be dampened with clean water prior application of Setseal 44. Dry surfaces may prevent correct film formation and cause absorption of the Setseal 44 into the concrete surface, which may lead to staining and difficulty in later degradation and removal.

Remarks

- ▲ It is important that the complete removal of the Setseal 44 is ensured prior to the application of any surface finishes or additional surface treatments.
- ▲ Setseal 44 can be removed by using high pressure steam, water jetting or light sand blasting.
- ▲ It is recommended to use Setseal A/AW where the concrete is to receive a coating or further surface treatment.
- ▲ Setseal 44 minimum application temperature is 5°C.

Cleaning

Tools and equipment can be cleaned with soaped water when wet. Dried Setseal 44 should be removed with DCP Solvent.

Packaging

Setseal 44 is available in 25 litre pails and 200 litre drums.

Coverage

The recommended coverage rate is 3.5 – 4.5 m²/litre.

Storage

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

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Shelf Life

Setseal 44 has a shelf life of 12 months from date of manufacture for the clear version, and 9 months for the pigmented, 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 44 is not classified as hazardous material.

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 44 is 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: 37°C.

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Don Construction Products Qatar W.L.L


New Industrial Area, Street 21,
Zone 81, bldg. # 9
Doha - Qatar

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