

Setseal 33

Water based paraffin dispersion concrete curing compound (Formerly known as Setcrete 33)



DESCRIPTION

Setseal 33 is a water based curing compound formulated from selected emulsified paraffins to form a low viscosity wax emulsion.

Setseal 33 is supplied as a white liquid which forms a wet white film when applied to concrete surfaces. This dries to form transparent film which retains sufficient moisture in the concrete to ensure full hydration of the cement, which is essential for optimum strength development.

Setseal 33 white is also available, which at recommended coverage rates gives a daylight reflectance value of 60 - 80% to reduce surface heat gain.

APPLICATIONS

Setseal 33 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.

ADVANTAGES

- » Helps achieving concrete desired strengths.
- » Minimizes potential surface cracking and shrinkage.
- » Promotes a harder dust free surface.
- » Available in white pigmented grade for solar reflection.
- » Single component.
- » Can be spray applied to reduce labor cost.
- » VOC compliant (less than 50 g/ltr).

STANDARDS

- » Setseal 33 complies with AASHTO M148 and ASTM C309, Type I and 2, Class A.
- » Water retention (kg / m^2) $< \text{ or } = 0.55$.
- » Setseal 33 is suitable for use in contact with potable water when tested in accordance to BS 6920.

METHOD OF USE

Setseal 33 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 33 well before use to ensure even pigment dispersion. Setseal 33 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 33 should be applied immediately after de-shuttering. In such a case the concrete surface must be dampened with clean water prior application of Setseal 33. Dry surfaces may prevent correct film formation and cause absorption of the Setseal 33 into the concrete surface, which may lead to staining and difficulty in later degradation and removal.

REMARKS

- » It is important that complete removal of the Setseal 33 is ensured prior to the application of any surface finishes or additional surface treatments.
- » Setseal 33 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 33 minimum application temperature is 5°C.
- » Solvent based curing compounds is also available from DCP.

CLEANING

Tools and equipment can be cleaned with soaped water when wet. Dried Setseal 33 should be removed with DCP Solvent

PACKAGING

Setseal 33 is available in 25 litre pails and 200 litre drums.

COVERAGE

The recommended coverage rate is 3 - 4 m^2 /litre.





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STORAGE

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

SHELF LIFE

Setseal 33 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 33 is not classified as a hazardous material, however any accidental splashes to the eyes must be rinsed with clean water and medical advise seeked.

Suitable protective gloves and goggles should be worn.

For further information refer to the Material Safety Data Sheet.

FIRE

Setseal 33 is water based and 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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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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