

# Griptop Seal S100

Solvent based polyurethane floor and wall coating



## Description

Griptop Seal S100 is a hard wearing, solvent based, modified PU flexible coating, designed to provide a hard, semi-gloss coating to concrete floors, walls, ceiling and other substrates.

## Applications

Griptop Seal S100 is used as protective, decorative and hard wearing coating for floors or walls in many applications including:

- ▲ Soft drink and beverage production areas.
- ▲ Dairies production areas.
- ▲ Show rooms.
- ▲ Industrial and commercial kitchen walls.
- ▲ Warehouses.
- ▲ Hospitals and pharmaceutical factory walls.
- ▲ Fish and meat processing plant walls.
- ▲ General food processing and manufacturing plants.
- ▲ Light vehicular traffic areas.
- ▲ Normal metal surfaces.
- ▲ UV resistant. Colour change may occur under direct sunlight without affecting the performance.

## Advantages

- ▲ Excellent chemical and mechanical resistance.
- ▲ Available in a wide range of attractive colours.
- ▲ Cost effective.
- ▲ Easy application.

## Standards

Griptop Seal S100 complies with BS476, Part 7 : 1987, Class 1 Spread of Flame.

## Method of Use

### Substrate Preparation

The substrate must be 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. For metal surfaces, it should be blasted to bright finish.

## Technical Properties:

Mixed density:	1.08 g/cm <sup>3</sup> @ 25°C
Pot life:	3 hr @ 25°C 1 hr @ 35°C
Minimum time between coats:	6 hr @ 25°C 4 hr @ 35°C
Maximum time between coats:	24 hr @ 25°C 16 hr @ 35°C
Dry film thickness:	85 microns/coat
Curing time:	7 days @ 25°C 5 days @ 35°C
Water absorption: ASTM D570	< 1%
Scrub resistance: ASTM D2486/2000	> 5000 cycle
Adhesion: ISO 2409/1992	Excellent
Opacity: (Grindo pac)	5 m <sup>2</sup> /ltr
Abrasion resistance: ASTM D4060/01 1000 cycle 1000 g using CS-17 wheel	< 100 Mg

Concrete floors must have a minimum compressive strength of 25 N/mm<sup>2</sup> and a maximum concrete relative humidity of 80% (max. moisture content of 4%), relative humidity can be measured using a hygrometer.

Concrete relative humidity should be less than 80% for concrete 28 days old or more.

### Surface Preparation

Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment.

Acid etching can be used only in well ventilated areas. Areas deeply contaminated by oil or grease, such areas should be treated by hot compressed air.

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## Mixing

To avoid inconsistent workability and pot life, make sure that the materials to be used are stored in shaded area and protected from extremes of temperatures, for at least 24 hours prior to application.

Prior to mixing, stir individual components of Resin, Hardener and colour pack. Add the entire contents of the colour pack into the base container and mix with heavy duty drill for 2 minutes till a uniform colour is achieved.

Add the entire contents of the hardener container to the mixed colour pack and base and mix thoroughly for at least 3 minutes.

## Coating

Use brush or lambs wool roller, or airless spray machine to apply the mixed Griptop Seal S100 onto the prepared surfaces. Apply 2 coats of Griptop Seal S100 at 7 - 8 m<sup>2</sup>/kg/coat, second coat should be applied at a right angle to the first coat.

The second coat may be applied as soon as the first coat has initially dried. Drying time will depend on the substrate and the ambient conditions.

If the over coating time is exceeded the first coat must be abraded with sand paper prior to the application of the second coat.

Adequate ventilation must be provided to ensure that necessary drying and curing of the material is achieved.

## Remarks

- ▲ Higher traffic areas should receive extra coats or a higher build system.
- ▲ Griptop Seal S100 should not be applied at temperatures below 10°C or where ambient relative humidity exceeds 85%.
- ▲ Griptop Seal S100 should not be applied onto surfaces known to suffer from rising damp.
- ▲ In case of spray applications, airless spray machines should be used.

## Cleaning

Tools and equipment can be cleaned with DCP Solvent. Dried Griptop Seal S100 may be removed mechanically.

## Chemical Resistance

Hydrochloric Acid 36%	Resistant*
Nitric Acid 10%	Resistant*
Phosphoric Acid 20%	Resistant*
Sulphuric Acid 25%	Resistant*
Lactic Acid 10%	Resistant*
Oleic Acid	Resistant*
Citric Acid 25%	Resistant*
Sodium Hydroxide 50%	Resistant*
Potassium Hydroxide	Resistant*
Sodium Chloride (sat.)	Resistant*
Brake Fluid	Resistant*
Engine Oil	Resistant*
Kerosene	Resistant*
Ammonia Solution 10%	Resistant*
White Spirit	Resistant*
Xylene	Resistant*
Acetone	Resistant*
Chlorinated Water	Resistant*
Viniger	Resistant*
Dead Sea Water	Resistant*
Diesel	Resistant*

*Note: Discoloration does not affect the material physical properties.*

## Packaging

Griptop Seal S100 is available in 5 kg packs (4.6 litre) and 20 kg packs (18.4 litre).

## Coverage

The coverage rate is 40 m<sup>2</sup>/5 kg pack/coat to achieve dry film thickness of 85 microns/coat.

## Storage

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

## Shelf Life

Griptop Seal S100 has a shelf life of 12 months from date of manufacture if stored in proper conditions and unopened packs.



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

## Cautions

### Health and safety

Griptop Seal S100 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 Griptop Seal S100 from skin.

For further information refer to the Material Safety Data Sheet.

### Fire

Griptop Seal S100 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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- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

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**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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05-0030-A-2010