

# Tuff Top 6-12

## DESCRIPTION

ACS *Tuff Top* is a wear resistant, self levelling cementitious floor overlay designed for areas subjected to heavy traffic conditions.

The product is an economical and fast curing topping for a wide range of application areas including warehouses, car parks, food processing and manufacturing facilities.

ACS *Tuff Top* can be used as a base for the ACS *Decra Glaze and Polyepoxy* flooring systems.

## FEATURES AND BENEFITS

- Fast application and rapid hardening - enables large areas of floor to be completed with minimal down time.
- Self smoothing and levelling depending on water addition.
- Stable - can be installed in large areas without the effects of cracking or curling on properly prepared substrate.
- Excellent adhesion.
- Fast curing allows speedy access for foot traffic and application of suitable coating.
- Pre-packaged – simply add water.
- Highly fluid and pumpable.

## RECOMMENDED USES

- Repairing existing or damaged concrete floors.
- Final wearing course for out of tolerances concrete floors.
- Smooth finishing of rough screeded floors.
- Leveling of concrete floors.
- For internal concrete floors to receive subsequent coating systems.

## PACKAGING

ACS *Tuff Top* is packed in 20kg bags. ACS *Neolastic* is supplied in 20 litre drums.

## COVERAGE RATES

When mixed with five litres of clean water, a 20kg bag of ACS *Tuff Top* yields approximately 12.5 litres (0.0125m<sup>3</sup>). ACS *Neolastic* should be applied at 5m<sup>2</sup> per diluted litre.

## PERFORMANCE PROPERTIES

Supply Form	Powder
Water addition/20kg bag	4.5 – 5.0 litres
Colour	Light Grey
Application Temperature	5°C to 30°C

	1 day	28 days
Compressive Strength	15 MPa	30 MPa
Flexural Strength	4 MPa	6 MPa
Adhesion Strength		1 MPa

Abrasion Resistance (AS/NZS 4456.9-2003)*	1.27 after 7 days air curing
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*\*25MPa Concrete abrasion resistance – 9.1*

Working Time	30 -40 minutes	
Setting Times	Initial	60 – 90 minutes
	Final	2 – 3 hours
Foot Traffic	Approx 3 hours	

(Test carried out at 23°C and 50% Relative Humidity)

## SURFACE PREPARATION

The concrete surface should be clean, dry and free from all contaminants including oil, sealers, curing compounds, paint, and carpet or tile adhesive residue. This is best achieved by grinding or mechanical shot blasting.

Joints in the base slab should be reflected in the topping slab by saw cutting and new concrete should be a minimum of 28 days old.

## PRIMING

Apply two full coats of ACS *Neolastic* diluted at the rate of two parts clean water to one part ACS *Neolastic* (2:1) by roller, brush or low pressure spray. Avoid ponding of the primer.

Apply each coat of primer in the opposite direction to the first coat and allow 2-3 hours drying between coats. Then allow the primer to completely dry before commencing application of *ACS Tuff Top*.

## APPLICATION

### Mixing:

- *ACS Tuff Top* must be mixed with a mechanical slow speed mixer. In small areas, a variable speed drill type mixer fitted with a helical blade is recommended.
- The required mixing water (4.5 – 5.0 litres) should be placed into the mixing vessel. Whilst mixing, add the powder slowly to reduce the incidence of lumps and mix until homogenous. The total mixing time should be four minutes (including addition of powder). *ACS Tuff Top* should then be left to stand for approximately three minutes and remixed just prior to application.
- For larger pours several mixing buckets should be used to allow for continuous production. And for large commercial projects *ACS Tuff Top* can be installed using a mechanical mixer/pump machine.

### Installation:

1. The installation of *ACS Tuff Top* should be even and continuous. The product should be poured on to the floor from a maximum height of 200mm from the floor (this applies to bucket application or pump hose).
2. Always apply the product into the preceding wet material to ensure an even thickness and natural flow.
3. The fresh wet topping should be rolled immediately with a suitable spiked roller, ensuring the spikes are long enough to cope with the thickness of the material. The standard maximum thickness of *ACS Tuff Top* is 12mm.
4. Once *ACS Tuff Top* has cured sufficiently to be walked on, apply a finish coat of *ACS Decra Glaze WB* and allow to dry for a minimum of 12 hours.

## CLEAN UP

Tools should be cleaned with water before the material hardens.

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## CURING

*ACS Tuff Top* does not require curing, however care should be taken not to install the product in direct sunlight or when hot winds are present. The use of curing compounds will effect the surface texture and the bonding of any subsequent flooring coating systems.

## STORAGE

*ACS Tuff Top* should be stored in a moderate temperature and in a dry place, the expected shelf life is 12 months.

## HEALTH AND SAFETY

*ACS Tuff Top* contains cement powders which can be harmful to the skin. During use, avoid inhalation of dust and contact with the skin and eyes. Wear suitable clothing, gloves, eye protection and respiratory protective equipment.

If contact with the skin occurs, thoroughly clean the area with plenty of fresh water and soap. In case of contact with the eyes rinse with plenty of fresh water and seek medical advice.

If swallowed, seek medical attention immediately – **Do not** induce vomiting. For further information consult the **Material Safety Data Sheet** and read the product label carefully before use. For **Material Safety Data Sheets** phone **1800 077 744**.

**Please Note:-** The information given in this data sheet is based on our current knowledge of the product when properly stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses.

To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury caused by improper use, incompetent preparation, inexperienced or negligent application, or ordinary wear and tear.

Service or advice given by our staff should not amount to responsibility for the project - since the owner, or their contractor (and not River Sands), is responsible for procedures relating to the application of the product.



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