

ACS Floor Pro Self Levelling Compound

DESCRIPTION

ACS Floor Pro Self Levelling Compound is a cementitious self-levelling compound with outstanding flow, workability and bonding properties. ACS Floor Pro Self Levelling Compound is suitable where a thickness of between 3mm and 50mm is required and can be used over new or existing interior floors that have been properly prepared and primed with CCS Super Polymer.

RECOMMENDED USES

- Interior floor levelling applications
- Residential and commercial projects
- New and existing construction projects
- Restoration of old floors
- As an underlayment for carpet or carpet and ceramic tiles after 24 hours cure time – refer to Temperature Factors
- As an underlayment for vinyl and timber after 72 hours cure time – refer to Temperature Factors

FEATURES & BENEFITS

- May be applied to a thickness of 3mm to 50mm in a single application
- Tear and rain resistant recyclable PE bags which prevent loss from broken bags
- Accurate and reliable bag weights
- Excellent bonding properties
- Outstanding flow and workability
- Trafficable at 12 hours
- May accept some floor coverings within 24 hours – refer to Temperature Factors

SURFACE PREPARATION

Concrete floors must be structurally sound, clean and dry. Surface must be free from all contaminants such as dust, dirt, wax, grease, asphalt, latex and gypsum compounds, adhesives, paint, curing and sealing compounds all of which may act as a bond breaker. Concrete must be free from laitance, efflorescence and not be subject to hydrostatic pressure. Mechanically prepare the floor using recommended preparation methods such as shot blasting, scarifying, diamond grinding, or other suitable methods to provide a roughened, clean, sound, solid and open porous surface. Acid etching is not a suitable method of preparing the subfloor. Remove all dust and debris from the floor by vacuuming the surface with a suitable H Class industrial cleaner which must be equipped with a Hepa filter.

All concrete sub floors must be fully cured and dry in accordance with AS 1884 (Less than 75% relative humidity when measured in accordance with ASTM F2170). Ambient temperature, surfaces and materials should be maintained at temperatures higher than 10°C and below 35°C. For floors with a high humidity content or subject to rising damp, apply a suitable moisture barrier compound. Refer to ACS Technical Bulletin on Concrete Subfloor Preparation for detailed information on preparation of the subfloor.

PRIMING

Using a soft brush or broom, prime the prepared concrete area with CCS Super Polymer and allow primer to dry. A second coat of primer may be necessary on areas with very porous surfaces where the initial coat has been completely absorbed. Allow the primer to fully dry to a clean, thin film (approx. 1- 2 hours depending on ambient conditions) before applying ACS Floor Pro Self Levelling Compound. Low temperature can delay the drying time of primer. Do not apply levelling until the primer has dried thoroughly. Refer to CCS Super Polymer Technical Data Sheet for correct mix ratio of 1:4 for priming.

MIXING

Add 4.2 – 4.6 litres of potable water into a clean mixing vessel and whilst mechanically mixing, slowly add the entire 20kg contents of ACS Floor Pro Self Levelling Compound. Mixing should take place using a forced action high shear mixing paddle, with a mixer capable of stirring at 600rpm. Mix for approximately 2 – 3 minutes to a lump free consistency. Use mix within 15 minutes after mixing, be sure to only mix a quantity that can be used within this time.

Do NOT overwater ACS Floor Pro Self Levelling Compound, use only the recommended mix water volume.

Do NOT use a concrete or masonry mixer to mix ACS Floor Pro Self Levelling Compound.

Do NOT mix by hand.

Do NOT attempt to retemper mixed product once the working time of 30 minutes has been exceeded.

APPLICATION

Pour the mixed ACS Floor Pro Self Levelling Compound onto the prepared substrate and spread into place using a long handled gauged spreader. ACS Floor Pro Self Levelling Compound seeks its own level during the first 10 - 15 minutes after pouring. Subsequent applications of leveller should be made whilst the material on the floor is still fluid and has a wet edge, to allow for easy blending. ACS Floor Pro Self Levelling Compound can be applied from 3mm to 50mm thick in one application. Thicker applications may require a longer cure. It is recommended that spiked shoes be worn, to minimise any indentations in the product whilst still fluid.

SETTING TIMES

Allow a cure time of 12 hours at 23°C for foot traffic. Allow ACS Floor Pro Self Levelling Compound to cure 24 hours at 23°C before applying carpet, carpet tile or ceramic tile floor coverings. Allow ACS Floor Pro Self Levelling Compound to cure 72 hours at 23°C before applying impervious floor coverings, such as timber or vinyl. These times can be impacted by air temperature, substrate temperature and relative humidity. Thicker layers will extend drying times.

COVERAGE

20kg bag of ACS Floor Pro Self Levelling Compound will cover approximately 2.5m² at 5mm thickness, 4.1m² at 3mm thickness.

CLEAN UP

Wash all tools in water immediately after use.

TEMPERATURE FACTORS

The mechanism of interaction between cement and water is temperature sensitive. The set time is delayed at low temperatures and is accelerated at high temperatures. To avoid significant change in setting times, the recommended water temperature, ambient and substrate temperature ranges are:

Water Temperature Range: 15 – 25 °C. Working with temperatures outside of this range will also impact the fluidity of the product.

AMBIENT TEMPERATURES

Do not apply at a temperature less than 10 °C. Above 30 °C, consider using cooled water for mixing the product. Do not apply in temperatures above 35 °C.

SUBSTRATE TEMPERATURE

Do not apply onto a surface which has a temperature less than 10 °C or above 35 °C.

PRODUCT DATA	TEST RESULT
Working Time at 23°C	30 minutes
Fresh Mix Density (Kg/m ³)	2013
Yield (L/20Kg bag)	12.0L @ 4.2L water addition 12.2L @ 4.6L water addition
20 Kg Bags per cubic metre	83 @ 4.2L water addition 82 @ 4.6L water addition
Foot Traffic at 23°C	Approx. 12 hours
Floor Coverings at 23°C	Carpet & Ceramic Tiles: 24 hours Timber & Vinyl: 72 hours
Setting Times at 23°C	Initial: 1 – 1.5 hours Final: 1.5 – 2.0 hours
Compressive Strength	1 Day: 8 - 9 MPa 28 Days: 33 - 34 MPa
Application Thickness	Minimum: 3mm Maximum: 50mm

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For further information consult the Safety Data Sheet and read the product label carefully before use. Safety data Sheets are available by phoning 1800 077 744.



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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 contract (and no River Sands), is responsible for the procedures relating to the application of the product.