abescreed SLC P

Fast-track self-levelling screed

DESCRIPTION

abescreed SLC P is a single pack, rapid hardening cement based screed for leveling floors where quick setting is essential. **abescreed SLC P** can be hand applied by trowel (0 - 20mm) or can be pumped (4 - 20 mm). For pumped applications, an 8 mm average thickness would be a typical expectation on a reasonably level base.

Uses

For fast-track refurbishment and new construction where finishes such as carpets, ceramic tiles, vinyl, wood block or cork need to be applied quickly.
Used for smoothing floors in office buildings, dwellings, shops, public buildings, schools, hospitals, airports, prisons, factories, workshops, warehouses and other places exposed to similar loads.
For a screed to receive a resin finish, use **abescreed SLC HW.**

FEATURES & Benefits

- Quick setting
- Self-leveling
- Can be pumped up to 2 000 m² per day, under suitable conditions
- Walk on after 2 - 4 hours under normal conditions.
- Can normally apply coverings onto a 10 mm thick screed after 24 hours.
- Pumpable or hand laid.
- Single pack just add water.
- Protein free, will not harbour bacteria.

SURFACE PREPARATION

The base slab or screed should be sound with a minimum thickness of 40 mm and with a minimum compressive strength of 25 MPa. All surfaces must be clean, mechanically sound and free of laitance, dust, grease and oil. Vacuum abrasive blast cleaning is the preferred method of surface preparation. Wet grinding followed by vacuuming may also be used.
All holes in the concrete or screed which are deeper than 40 mm should be repaired with **durarep FR** before priming.

TYPICAL PHYSICAL PROPERTIES	
Compressive strength (28 days)	33 N/mm²
Flexural strength	9 N/mm²
Adhesion to concrete (28 days)	>1 N/mm²
Shrinkage	<0,06%
Maximum particle size	0,5 mm
Protein content	Nil
Thickness (pumped)	4 – 20 mm
Thickness (hand applied)	0 – 20 mm
Laying temperature	5 - 25° C
Working time at 20° C	20 mins
Walk on time at 20° C	2 – 4 hrs
Overcoating time (20° C, 50% RH) 10 mm thick	24 hrs
Flow ring (65 mm dia x 40 mm high)	Target 230 – 250 mm

Bonding / Priming

Concrete surfaces should be primed with **abescreed SLC acrylic prime**r. Apply the diluted **abescreed SLC acrylic primer** (refer to data sheet for dilution) onto the floor surface by means of a brush and leave it to dry before applying **abescreed SLC P.**
Priming improves the adhesion of the **abescreed SLC P** to concrete, prevents formation of air bubbles and reduces water absorption into the sub floor.
For information on how to prepare impermeable concrete bases or floors other than concrete floors, contact **abe's** Technical Service Department.

Mixing

Correct mixing and proportioning of the **abescreed SLC P**, is essential for good results. Mechanical mixing using a heavy duty drill and helical mixer, or continuous mixer/pump is the recommended mixing method. Mix with clean potable water at typically 4,5 litres per 25kg bag for a minimum of 60 seconds. Working temperature of the mix must be in the range of 5 - 25° C. Use warm water in cold conditions. Excess water may lead to a friable surface and will reduce the strength of the **abescreed SLC P.**
Do not mix more **abescreed SLC P** than can be applied in 20 minutes

Coverage

1,8 kg/m² per mm thickness
18,0 kg/m² at 10 mm
27,0 kg/m² at 15 mm

Application

Pour or pump the mix over the concrete surface. For pumped application, ensure the continuity of electricity and water supplied is secured. Pump the **abescreed SLC P** onto the floor in a continuous operation, feeding fresh material into a wet edge.
abescreed SLC P will level out to a smooth, even finish. Where necessary, release small air bubbles from the newly laid screed with a spiked roller. This practice must be adopted within

5 minutes of application to avoid interfering with the final leveling properties.

CLEANING

Tools, brushes and mixing equipment should be cleaned with water immediately after use and before material has set. Hardened material can only be removed by mechanical means.

PROTECTION ON COMPLETION

Ensure the **abescreed SLC P** is not subject to draughts during the first 6 hours of curing as this may lead to cracking and crazing. Tape up doorways with polythene if necessary to prevent air movement during application. Subsequently ensure the room has sufficient ventilation to allow the screed to dry. Ensure adequate protection from other trades and traffic after installation. Prevent contamination by following trades e.g. plastering, including water spillage.

HARDENING AND DRYING TIMES

abescreed SLC P may be walked on after 2 - 4 hours, and may be sanded at joints if required 24 hours after application. The floor covering can be installed after 24 hours, depending on the type of finish, density and dryness of **abescreed SLC P** , screed and ambient conditions.
Before installation of floor coverings, the requirements for critical moisture contents for particular floor coverings have to be observed.

TEMPERATURE AND RELATIVE HUMIDITY

Internal air and floor temperatures must exceed + 5° C. The RH of the concrete floor must not exceed 95%, but where moisture sensitive floor coverings are to be laid soon after **abescreed SLC P** application, the RH of the base must be below 75% as per BS 8203
If above 75% relative humidity, use **epidermix 116** damp-proof membrane as a primer and not **abescreed acrylic primer** between the concrete and **abescreed SLC P** to enable immediate installation of floor finishes.

MODEL SPECIFICATION

abescreed SLC P single component cement based screed for leveling floors. Supplied and laid on a suitable sound laitance free and vacuum cleaned concrete or screed base primed with **abescreed SLC acrylic primer**. Minimum thickness feather-edge by hand or 4 mm by pump and maximum thickness 20 mm. To be mixed and laid in accordance with the instructions of **abe Construction Chemicals.**

PACKAGING

abescreed SLC P is supplied in 25 kg polyethylene lined paper bags.

HANDLING & STORAGE

This product has a shelf life of six months if kept in a dry cool place in the original packaging. In more extreme conditions this period might be shortened.

HEALTH & SAFETY

Some of the components of this product may be hazardous during application. Consult relevant Health and Safety data sheets, available from **abe Construction Chemicals** on request.

IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst **abe Construction Chemicals** endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot - because **abe** has no direct or continuous control over where and how **abe** products are applied - accept any liability either directly or indirectly arising from the use of **abe** products, whether or not in accordance with any advice, specification, recommendation, or information given by the company.

FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements. **abe Construction Chemicals** has a wealth of technical and practical experience built up over years in the company's pursuit of excellence in flooring and concrete technology.