



**Chem Coats (Pvt) Ltd.**

# ChemScreed SLC P

**Fast-track self-leveling screed**

## DESCRIPTION

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

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## 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.

## FEATURES & BENEFITS

- Quick setting
- Self-leveling
- Can be pumped up to 2000 m<sup>2</sup> 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.
- Pump able or hand lay.
- Single packs just add water.
- Protein free will not harbor 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 **ChemRep FR** before priming.

## Bonding / Priming

Concrete surfaces should be primed with **ChemScreed SLC acrylic primer**. Apply the diluted **ChemScreed 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 **ChemScreed SLC P**.

Priming improves the adhesion of the **ChemScreed 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 **Chem Coats** Technical Service Department.



## Typical Physical Properties

Compressive Strength (28 days)	33 N/mm <sup>2</sup>
Flexural strength	9 N/mm <sup>2</sup>
Adhesive to concrete (28 days)	>1 N/mm <sup>2</sup>
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
Over coating time (20°C, 50% RH) 10 mm thick	24 hrs
Flow ring (65 mm dia x 40 mm high)	Target 230 – 250 mm

## Mixing

Correct mixing and proportioning of the **ChemScreed 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 **ChemScreed SLC P**.

Do not mix more **ChemScreed SLC P** than can be applied in 20 minutes.

## Coverage

1.8 kg/m<sup>2</sup> per mm thickness  
18.0 kg/m<sup>2</sup> at 10 mm  
27.0 kg/m<sup>2</sup> 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 **ChemScreed SLC P** onto the floor in a continuous operation, feeding fresh material into a wet edge.

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**ChemScreed 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 **ChemScreed 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

**ChemScreed 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 **ChemScreed 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 **ChemScreed SLC P** application, the RH of the base must be below 75% as per BS 8203.

If above 75% relative humidity, use **ChemDermix 116** damp-proof membrane as a primer and not **ChemScreed acrylic primer** between the concrete and **ChemScreed SLC P** to enable immediate installation of floor finishes.

## MODEL SPECIFICATION

**ChemScreed 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 **ChemScreed 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 **Chem Coats Construction Chemicals**.

## PACKAGING

**ChemScreed 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 **Chem Coats Construction Chemicals** on request.

## IMPORTANT NOTE

The information given in this data sheet is based on current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no controls over methods of applications, site conditions etc. In view of the continuing research and development being undertaken in our laboratories we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale which are available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact your local **Chem Coat's** representative.

## RANGE OF PRODUCTS

<u>WATERPROOFING SYSTEMS</u> <u>INDUSTRIAL FLOOR SURFACES</u> <u>PROTECTIVE COATINGS</u>	<u>PREPACKED REPAIR MORTARS</u> <u>CEMENTITIOUS &amp; EPOXY GROUTS</u> <u>CONCRETE ADMIXTURES</u>	<u>SEALANTS</u> <u>CRACK INJECTION</u> <u>CONCRETE ADHESIVE</u>
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