

Sparco 3-C PU Screed

Three-Component Water-Based Polyurethane Screed

A three-component water-based polyurethane screed for medium to heavy-duty floors, offering self-smoothing placement, tough mechanical performance and high chemical resistance.

Sparco 3-C PU Screed is a three-component water-based hybrid polyurethane flooring screed available in a range of colours. It combines good levelling with tough mechanical and high chemical resistance, making it suitable for medium to heavy-duty industrial floors. It is especially suited to highly absorbent substrates and bonds well to mechanically cleaned surfaces.

Mechanical & Chemical Resistance:

Tough polyurethane screed offering robust mechanical performance and high chemical resistance for demanding industrial floors.

Self-Smoothing:

Good levelling, self-smoothing screed applied at 1.5 to 3 mm for medium to high loading.

Versatile Build:

Suitable as a primer, base coat or wear coat in rough, tough industrial flooring subject to high traffic.

Substrate Tolerance:

Especially suitable for highly absorbent substrates.

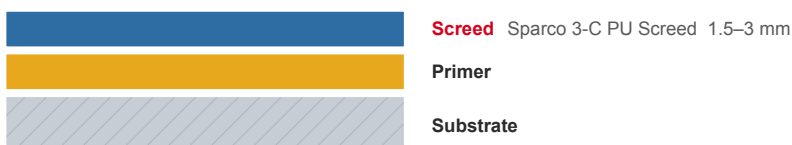
Adhesion:

Excellent adhesion to mechanically cleaned surfaces, achieving concrete-failure bond strength.

FIELDS OF APPLICATION

- ▶ Medium to heavy-duty floors
- ▶ Self-smoothing screed (1.5 – 3 mm)
- ▶ Primer / base coat
- ▶ Wear coat
- ▶ High-traffic industrial flooring
- ▶ Highly absorbent substrates

System Design



Technical Profile*

COLOUR

Part C pigment

Light grey, green; others on request

SOLIDS

Part A / Part B / Part C

100 / 100 / powder

DENSITY

Part A @ 25°C

1.10 g/cm³

DENSITY

Part B @ 25°C

1.00 – 1.02 g/cm³

DENSITY

Part C @ 25°C

1.30 – 1.40 g/cm³

APPLIED THICKNESS

self-smoothing

1.5 – 3 mm

POT LIFE

@ 30°C

15 – 20 minutes

BOND STRENGTH

to concrete

Concrete failure

FINAL CURE

@ 25°C

7 days

CONSUMPTION

per mm thickness

1.8 kg/m²·mm

SHELF LIFE

unopened

12 months

* Typical properties of unmixed material at 25°C.

Values may vary with site conditions, substrate and application method.

Available in light grey and green; other colours on request

Applied colours may differ from samples shown on screen or in print. Contact Sparco Paints for the full colour chart and physical samples.

Model Specification

System	Sparco 3-C PU Screed
Type	Three-component water-based polyurethane screed
Build-up	Self-smoothing screed at 1.5 – 3 mm
Manufacturer	Sparco Paints

Preparatory work and application in accordance with manufacturer's instructions.

System Build-Up by Substrate

Substrate	Preparation	Primer & Finish
Concrete	Mechanically prepare by ball blasting, milling or diamond grinding; cure 28 days, moisture ≤ 5%	Sparco 3-C PU Screed at 1.5 – 3 mm

Surface Preparation

The substrate must be dry, sound, clean and free from oil, grease, loose material and other bond-inhibiting contaminants. Prepare concrete mechanically by ball blasting, milling or diamond grinding; remove weak concrete and fully expose surface defects such as blowholes and voids. Fill cracks, holes and gouges with suitable patching materials, and remove all dust and loose material, preferably by vacuum. Moisture content must not exceed 5%, and new concrete should be at least 28 days old.

Packaging

Product	Pack Size
Sparco 3-C PU Screed — Part A	3 kg
Part B	3 kg
Part C (cement + pigment)	14.5 kg

Warranty

LIMITED WARRANTY: Sparco Paints (S) Pte Ltd warrants that, at the time and place of shipment, our materials will be of good quality and will conform to our published specifications in force on the date of acceptance of the order.

DISCLAIMER: The information contained herein is included for illustrative purposes only and, to the best of our knowledge, is accurate and reliable. As Sparco Paints (S) Pte Ltd has no control over the use to which others may put its products, it is recommended that products be tested to determine suitability for specific applications. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of the product for its specific application and assume all responsibility in connection therewith.

Application Guidelines

Parameter	Value
Pot life @ 30°C	15 – 20 minutes
Applied thickness	1.5 – 3 mm
Consumption	1.8 kg/m ² ·mm
Min. mixing temperature	10°C
Curing temperature	10 – 35°C
Final cure	7 days

IMPORTANT

Substrate moisture must not exceed 5% and new concrete must be at least 28 days old. Do not mix below 10°C; cure between 10°C and 35°C. Pot life is short (15 – 20 minutes at 30°C) — process each batch promptly, as curing accelerates in hot weather.

Product Preparation

Condition the product under cover in dry conditions, ideally maintained at approximately 25°C for at least 24 hours before mixing.

Mix Component A into a clean barrel, add Component B and blend homogeneously for at least 2–3 minutes with a mechanical stirrer, then add Component C while continuing to mix; once the Part C bag is empty, mix a further 3–4 minutes. Apply evenly with a steel trowel within the pot life.

Cleaning

Remove uncured Sparco 3-C PU Screed from tools and equipment with suitable solvents such as xylene or toluene immediately after use. Cured material can only be removed mechanically.

Storage

Store for a minimum of twelve months at 5°C to 35°C in unopened original packaging. Protect from direct sunlight.

Health & Safety

Sparco 3-C PU Screed is physiologically harmless once fully hardened. Keep resin and hardener away from eyes, mouth and skin, and avoid breathing the vapours; wear protective gloves when handling — refer to the Safety Data Sheet (SDS) for full details.

Technical Assistance

Please contact Sparco Paints (S) Pte Ltd for technical assistance, specification support and application advice.