



# SL C980 XPS

## VERY HEAVY DUTY SMOOTHING COMPOUND FOR USE ON INTERNAL AND EXTERNAL FLOORS

Date: 28 January 2021

Fact Sheet No.: TDS02158

### YOUR SMART ADVANTAGES

- High strength, abrasion resistant smoothing compound
- Suitable for industrial premises
- Finished wearing surface when used without floor coverings

### USES

Bostik SL C980 XPS smoothing compound is suitable for smoothing and levelling of uneven subfloors. It can be laid over most common substrates including: cementitious screeds, concrete floors, old ceramic tiles, and other hard, rigid bases, both internally and externally. Once cured, the application of paints, resins, coatings can be applied to protect from staining, or to improve aesthetics as required. Floor coverings may also be bonded, such as resilient flooring, carpets, tiles and wood.

Bostik SL C980 XPS can be applied from 3mm up to a maximum thickness of 15mm in a single application and from 10mm to 50mm when blended with 0.4 – 0.9mm clean, sharp sand.

It is suitable for use in both new-build and refurbishment projects. It can be used in areas that are subject to heavy levels of foot traffic, industrial premises and parking areas. It is suitable to fill depressions of all depths and types of substrates. It is also suitable for use with warm water underfloor heating systems where the floor surface temperature does not exceed +27°C. Do not use as a substitute for a DPM.

### PRODUCT CHARACTERISTICS

Colour	Grey
Form	Powder
Composition	Cementitious water mix
Product Codes	30615447 25kg bag

Storage/Shelf Life	Store and transport securely. Store for up to 6 months from date of manufacture in original, unopened packaging, clear of the ground, in cool, dry conditions within the temperature range +5°C to +25°C and out of direct sunlight. Protect from frost, damp, condensation and dew.
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### TYPICAL PERFORMANCE DATA (Approx.)

Application Temperature	+10°C to +25°C
Coverage	Approx. 1.8kg/mm/m <sup>2</sup> (depending on the trowel used, smoothness of the floor surface & application technique)
Gauging Liquid	Water
Application Thickness	3mm to 15mm
Working Times	Up to 20 minutes after mixing (depending on ambient temperatures)
Drying Times	Foot traffic approx. 1 hour at +23°C Floor coverings approx. 4 hours at +23°C
Compressive Strength	Typically 40N/mm <sup>2</sup> after 28 days
Flexural Strength	Typically 7N/mm <sup>2</sup> after 28 days
Cleaning	Clean tools and equipment with warm soapy water immediately after use

### DIRECTIONS FOR USE

**IMPORTANT:** Before using Bostik SL C980 XPS, refer to the relevant Health & Safety Data Sheet, available at

All phases of installation should comply with the latest editions of:

- BS 8102 Code of Practice for protection of structures against water from the ground.
- BS 5325 Code of Practice for installation of textile floor coverings.
- BS 8203 Code of Practice for installation of resilient floor coverings.
- BS 8201 Code of Practice for installations of for flooring of timber, timber products and wood based panel products.

## PREPARATION

### Subfloor:

1. Ensure the subfloor is sound, clean, dry and of adequate tensile and compressive strength, free from loose material, laitance, cracks and structural defects.
2. The subfloor should be tested in accordance with British Standards using a properly calibrated and insulated hygrometer. A reading of 75% RH or less confirms that the subfloor is satisfactorily dry. For readings above 75% RH a suitable Bostik surface membrane must be used. If the floor is not being covered or sealed, a DPM may not always be required, contact Technical Services for further information.
3. Any contaminants that may hinder adhesion, such as grease, oil, dirt, dust, some curing compounds, surface hardeners, additives and adhesive residues must be completely removed.
4. For optimum performance, a room temperature of +13°C to +23°C should be maintained for at least 24 hours prior to application. The temperature of the subfloor must be at least +5°C throughout the application and drying of the smoothing compound. Ensure that a maximum room temperature of +25°C is not exceeded during application. Application in high temperatures may result in rapid setting and poor flow. The rapid loss of water may increase the risk of cracking. Do not force dry this product.

### Underfloor heating systems:

5. Warm water underfloor heating systems: A maximum floor surface temperature of +27°C must not be exceeded.
6. Warm water underfloor heating systems must be switched off for 48 hours before installation. Wait 48 hours after installation before gradually turning up underfloor heating.

## PRIMING

7. In all cases, the subfloor must be primed prior to the application of the smoothing compound, as shown in the table below. See separate technical data sheets for primer application and drying details.

Absorbent substrates:	Bostik Screedmaster Universal Primer (diluted 1:2 with water)
Dense/non-absorbent substrates including epoxy membranes	Bostik Screedmaster Universal or Bostik Screedmaster Epoxy Primer (for applications above 10mm)
Calcium sulphate screeds:	Bostik Screedmaster Epoxy Primer (diluted 1:1 with water)
Applications in excess of 10mm of smoothing compound:	Bostik Screedmaster Epoxy Primer

## MIXING & APPLICATION THICKNESS

8. Pour 4.5 litres of clean, cold water into a clean mixing bucket. Gradually add the bag of Bostik SL C980 XPS powder to the water, whilst continually mixing with an electric drill and mixing paddle (500 rpm max.) until a smooth, lump-free mixture is obtained. This will normally be achieved after 2 minutes. Do not under mix.
9. After mixing, a maturing time of at least 1 minute is recommended to optimise the flow.
10. Bostik SL C980 XPS can be applied from a minimum depth of 3mm up to 15mm in a single application. For depths above 15mm, the product needs to be used as a blended compound.

### Blended compound:

11. When used as a blended compound, add approx. 4.5 liters of water per 25kg bag, plus 8kg clean, sharp sand (0.4mm - 0.9mm in diameter). The coverage with this method is approx. 2kg/m<sup>2</sup> per mm thickness.
12. Adjust the thickness by drawing a horizontal wooden plank over the surface. It is possible to make slopes. The surface is then finished using a standard coating of Bostik SL C980 XPS, applied to a thickness of at least 3mm.
13. The unblended mixture will retain its self-smoothing capability for approximately 20 minutes under normal conditions. If the mix begins to stiffen, it must be discarded, do not add further water.

Note: the addition of too much water may result in separation of the compound.

## APPLICATION

14. Pour the mixed material onto the prepared subfloor in a continuous operation and allow to flow.
15. Using a steel screeding trowel, spread evenly to the required depth and smoothness. A pin level may be used to assist in gaining the required depth. The use of a spiked roller is highly recommended to de-aerate the product and ensure a smooth surface is achieved, particularly between adjacent mixes of material. This must be done whilst the compound is still fluid. Do not

use a spiked roller once the product has begun to gel or set, as this will create imperfections.

16. Where large floor areas require levelling, it is beneficial to apply Bostik SL C980 XPS by pump. It should be applied to the desired thickness in one single continuous coat. Any subsequent applications should be applied once the product will accept foot traffic but remains damp. If it dries, a primer coat will be required. Contact Technical Services for further details.
17. Protect surface from traffic prior to applying coatings, or laying floor coverings.

#### DRYING TIMES

18. Protect freshly applied product from strong sunlight and through draughts as this can dehydrate the product, resulting in incorrect curing. Also, protect from rain and frost. Do not force dry the smoothing compound, as this may affect the curing process.
19. The drying time depends on how absorbent the subfloor is, the ambient & floor temperature and the humidity.

Foot traffic:	1 hour approx. at +23°C
Floor coverings:	4 hours approx. at +23°C

The working and drying times of the compound will be reduced in higher temperatures and increased in lower temperatures.

#### FINISHING

20. If Bostik SL C980 XPS is to be left exposed as a wearing surface, application of a suitable transparent varnish can be made to avoid any possibility of staining.

#### CLEANING

21. Clean tools and equipment with warm soapy water immediately after use. Remove surplus compound from surfaces whilst it is still wet.

#### PRECAUTIONS IN USE

Do not use as a substitute for a DPM.

Protect Bostik SL C980 XPS from strong sunlight and through draughts as this can dehydrate the product resulting in incorrect curing.

For any application not covered, please contact Technical Services on +44 (0)1785 272625 or visit [www.bostik.com/uk](http://www.bostik.com/uk) for advice.

Recommendations and suggestions are for guidance only, since conditions of use are completely beyond our control.

For health and safety instruction, first aid measures and spillage and disposal instructions, see separate Health and Safety Data sheet for Bostik SL C980 XPS, available at [www.bostik.com/uk](http://www.bostik.com/uk).

BOSTIK HOTLINE

Smart help +44 (0) 1785 272625



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