



SL C320 ARDASOL

SMOOTHING COMPOUND FOR USE ON INTERNAL FLOORS

Date: 28 January 2021

Fact Sheet No.: TDS02157

YOUR SMART ADVANTAGES

- Pumpable and self-levelling
- Suitable for domestic & light commercial use
- Smooth surface finish

USES

Bostik SL C320 ARDASOL smoothing compound is suitable for smoothing and levelling of uneven subfloors before laying decorative floor coverings. It can be laid over most common substrates including: cementitious screeds, concrete floors, old ceramic tiles and other hard, rigid bases.

Bostik SL C320 ARDASOL is suitable for use in both new-build and refurbishment projects and can be applied by trowel or pump applications. It can be used in areas that are subject to moderate and high levels of foot traffic and should always be covered with a floor covering.

It is also suitable for use with warm water underfloor heating systems where the floor surface temperature does not exceed +27°C.

PRODUCT CHARACTERISTICS

Colour	Light grey
Form	Powder
Composition	Cementitious water mix
Product Codes	30615899 25kg bag
Storage/Shelf Life	Store and transport securely. Store for up to 9 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.

TYPICAL PERFORMANCE DATA (Approx.)

Application Temperature	+10°C to +25°C
Coverage	Approx. 1.5kg/mm/m ² (depending on the trowel used, smoothness of the floor surface & application technique)
Gauging Liquid	Water
Application Thickness	1mm to 10mm
Working Times	Up to 20 minutes after mixing (depending on ambient temperatures)
Drying Times	Foot traffic approx. 4 - 6 hours at +23°C Ceramic floor tile approx. 24 hours at +23°C Resilient floor coverings approx. 48 - 72 hours at +23°C Wooden floor coverings approx. 72 hours at +23°C
Compressive Strength	Typically 20N/mm ² after 28 days
Flexural Strength	Typically 6N/mm ² after 28 days
VOC emissions	Very low emissions EC1 Plus
Cleaning	Clean tools and equipment with warm soapy water immediately after use

DIRECTIONS FOR USE

IMPORTANT: Before using Bostik SL C320 ARDASOL, 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.
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.
8. When using Bostik Screedmaster Rapid DPM no priming is required (unless going over 10mm). Refer to the Bostik Screedmaster Rapid DPM technical data sheet for

application details.

Absorbent substrates:	Bostik Screedmaster Universal Primer (diluted 1:2 with water)
Dense/non-absorbent substrates including epoxy membranes	Bostik Screedmaster Universal
Calcium sulphate screeds:	Bostik Screedmaster Epoxy Primer (diluted 1:1 with water)
Radiant underfloor heating systems:	Contact Technical Services

MIXING & APPLICATION THICKNESS

9. Pour 6 litres of clean, cold water into a clean mixing bucket. Gradually add the bag of Bostik SL C320 ARDASOL powder to the water, whilst continually mixing with an electric drill and mixing paddle until a smooth, lump-free mixture is obtained. This will normally be achieved after 2 minutes. Do not under mix.
10. After mixing, a maturing time of at least 1 minute is recommended to optimise the flow. Remix for 30 seconds.
11. The 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.
12. Bostik SL C320 ARDASOL can be applied from a minimum depth of 1mm up to 10mm in a single application.
13. Sound, rigid, non-absorbent subfloors require a minimum of 3mm of Bostik SL C320 ARDASOL to ensure adequate absorbency for subsequent adhesives.
14. Sound, strong asphalt requires a 2mm to 5mm covering.
15. When bonding wood flooring a minimum 2mm is required.
16. If a second application of Bostik SL C320 ARDASOL is required, this can be carried out once it is ready to take foot traffic. Prime the first layer with Bostik Screedmaster Universal Primer (diluted 1:2 with water) and allow the primer to dry.

APPLICATION

17. Pour the mixed material onto the prepared subfloor in a continuous operation and allow to flow.
18. Using a steel screeding trowel, spread evenly to the required depth and smoothness. 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.

19. Where large floor areas require levelling, it is beneficial to apply Bostik SL C320 ARDASOL 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.
20. Protect surface from traffic prior to laying a floor covering.

DRYING TIMES

21. 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.
22. The drying time depends on how absorbent the subfloor is, the ambient & floor temperature and the humidity.

Foot traffic:	4 - 6 hours approx. at +23°C
Ceramic tile / textile floor coverings:	24 hours approx. at +23°C
Resilient floor coverings:	48 hours approx. at +23°C
Wooden floor coverings:	72 hours approx. at +23°C

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

CLEANING

23. 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 C320 ARDASOL 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 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 C320 ARDASOL, available at www.bostik.com/uk.

BOSTIK HOTLINE

Smart help +44 (0) 1785 272625



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