

143 LANKOSOL



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PRODUCT FEATURES

- ▶ Thicknesses from 3 to 50 mm
- ▶ Self-levelling /compacting, with or without filler
- ▶ Interior or exterior floors
- ▶ Can be covered or left bare
- ▶ Suitable for gradients up to 2%
- ▶ Can be pumped, even with filler

WATER DOSAGE

- ▶ 4 to 4.5 litres per 25 kg bag

CONSUMPTION

- ▶ 143 LANKOSOL without filler: 1.6 kg powder/m²/mm
- ▶ Final volume for one 25 kg bag: 15 litres approx.
- ▶ 143 LANKOSOL with filler (5 litres GS20 sand): 1.4 to 1.5 kg powder/m²/mm
- ▶ Final volume for one 25 kg bag + 5 litres GS20 sand: 17 litres approx.

REFERENCE DOCUMENT

- ▶ Standard EN 13813

DESCRIPTION

- Self-levelling mortar for interior and exterior floors for producing a surface coating of 3 to 50 mm thickness.
- Can be covered or left bare.

USES

- Interior and exterior floors
- Suitable for balconies, terraces and private garages (but not public car parks) and other living areas.
- Must be totally adherent to substrate (not suitable for raised or floating flooring).
- Not suitable for industrial premises.

PERMISSIBLE SUBSTRATES

- Precast elements
- Concrete slabs
- Floating screed
- Bonded screed

APPLICATION THICKNESS

- 3 to 20 mm without filler
- 20 to 50 mm with filler

SUITABLE COVERING MATERIALS

- Floor paint (epoxy, polyurethane, acrylic)
- Tiling
- Carpet
- Flexible floor covering
- Parquet flooring

SPECIFICATIONS

- **Ingredients:** hydraulic binder and special admixtures
- **Appearance:** grey powder
- **Particle size:** < 2 mm
- **Hardened product density:** 2
- **pH:** 12

PERFORMANCE CHARACTERISTICS

- **Pot life at 20°C:** 40 min approx. (± 10 min)
- **Bonding strength (1)** (MPa)

Period	28 days
Concrete substrate	> 1 MPa

- **Mechanical strength (2):** (MPa)

Period	1 day	7 days	28 days
Flexural	3	6	7
Compressive	12	23	26

- **Flexural resistance class (3):** F5
- **Compressive resistance class (3):** C20

INSTRUCTIONS

SUBSTRATE PREPARATION

- The substrate must be clean, sound, dust-free and without any traces of oil, laitance, curing compound, plaster or paint.
- The substrate must be at least 1 month old (3 months for corbelled structures, such as balconies) and be crack-free.

Porous, smooth or dense substrates

- Prime with **165 PROLIPRIM UNIVERSEL** (2 coats on porous substrates) which can be covered as soon as it is touch-dry and in all cases within 24 hours maximum.

Normal porosity substrates

- It is also possible to apply a slurry made up of **143 LANKOSOL** mixed with a solution of 1 part **751 LANKO LATEX** and 2 parts water. This slurry must still be fresh when **143 LANKOSOL** is applied.

PRODUCT PREPARATION

- For application thicknesses between 20 and 50 mm, indoors or outdoors, it is essential to add 5 litres (7.5 kg approx.) clean and dry siliceous sand (e.g. GS 20, particle size 0.6/1.2 mm) to each 25 kg bag of **143 LANKOSOL**.
- Machine-mix on fast speed during 3 minutes one 25 kg bag of **143 LANKOSOL** with 4 to 4.5 litres of clean water until the compound is evenly distributed and the mixture is lump-free. The powder (and filler if used) must always be poured into the water.
- Leave the mixture to stand for a while before application.
- An electric mixer or cement mixer should be used.

APPLICATION

- The mixture should gradually be poured onto a substrate prepared in accordance with the above-mentioned instructions.
- As soon as **143 LANKOSOL** has been poured it must be levelled using a scraper (adjusted to the desired thickness), a flemish trowel or a screed levelling bar (particularly recommended for thicknesses over 20 mm).

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PACKAGING

- ▶ 25 kg bag

STORAGE

- ▶ **12 months**
from date of manufacture if stored in unopened original packing in dry conditions

WARRANTY

- ▶ Manufacturer's liability

Contraction joints

- These are required for all doorways, outward angles and also:
 - Every 20 m², at a maximum distance of 7 metres, if the surface is to be left bare or painted over or for thicknesses over 20 mm.
 - Every 50 m², at a maximum distance of 10 metres in all other cases.
- Joints should be made using a machine saw or by laying a plastic tracking strip.
- Pre-existing expansion and contraction joints must be respected.

Separation

- Ensure a reasonable separation from the surrounding area and any emergent points (e.g. pillars, posts...).

Protection

- For outdoor use and in the presence of draughts, spray **742 LANKOCURING** onto the surface. Please note that the use of a curing product may alter the appearance of the product.
- If the surface is to be covered, **742 LANKOCURING** must be removed by sanding.

Surface appearance

- **143 LANKOSOL** is not intended for decorative use – differences in shade and a watering effect can be expected.

Laying floor covering materials

- Interval before laying the following materials: carpet, tiles, parquet (1):
 - 2 days if temperature above 20°C.
 - 5 days if temperature close to 10°C.
- NB. these periods of time apply for mortar applied to a concrete floor that is at least 28 days old.
- For details of intervals before applying floor paint and PVC flooring, please refer respectively to French DTU 59.3 and 53.2.

Return to service

- For light traffic (e.g. pedestrians): 24 hours (1).

TECHNICAL ASSISTANCE: ParexGroup S.A. will, on request, provide information and assistance to companies in relation to the specific use of a product. Such assistance shall not be assimilated with structural design and conception, nor the compliance of substrates, nor as a control of usage rules in force.

TECHNICAL DATA SHEET ISSUED - Février 2017

The information provided in this document results from our knowledge of the products and our experience. Prior to application, customers and users are requested to check that they are in possession of the latest version of this document. Please check for updates at www.parexlanko.com.

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(1) Data provided is for guidance only since hardening time will vary according to drying conditions (in particular air temperature and relative humidity).

PRECAUTIONS

- Temperature range for use: + 5°C to + 35°C.
- Open to pedestrians: 24 hours (1)
- Open to light vehicle traffic: 72 hours.
- Comply with the recommended floor covering intervals.
- Do not apply to a seeping or frozen substrate.
- Do not use in freezing conditions.
- Check that the mechanical strength of 143 LANKOSOL is compliant with the structural requirements.
- Do not use on submerged substrates.
- Refer to the Safety Data Sheet