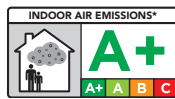


- FIBRE-REINFORCED SELF-LEVELLING P4S MORTAR - 3 TO 20 MM

# 176 SOL 4000



1/2



### PRODUCT FEATURES

- ▶ Excellent mechanical performance
- ▶ Strong resistance to marking and shearing
- ▶ Fibre-reinforced, coloured grey
- ▶ Pumpable
- ▶ Semi-rapid setting

### THICKNESS

- ▶ 3 to 30 mm

### WATER RATIO

- ▶ 5.75 to 6.25 litres

### CONSUMPTION

- ▶ 1.5 kg/m<sup>2</sup> per mm thickness

### REFERENCE DOCUMENTS

- ▶ CE label, compliant with standard EN 13813
- ▶ CSTB QB Certificate

### DESCRIPTION

- **176 SOL 4000** is a high performance self-levelling mortar, designed for new or existing interior floors in communal, high traffic locations (class P4S).
- Ready to mix, it can be covered over relatively quickly and is particularly suitable for renovation projects. **176 SOL 4000** may be left uncovered in light traffic domestic locations (class P3 max.) if treated with **241 LANKORESIST HARDENER\*** once dry.

### USES

- Interior floors
- Exterior floors (if tiled or painted over)

### PERMISSIBLE SUBSTRATES <sup>(1)</sup>

- Floating screed
  - Bonded screed
  - Surface-finished concrete slabs
  - Prefabricated elements (including composite flooring)
  - Underfloor heating systems (low temperature water or reversible)
  - Liquid cement screed, subject to technical appraisal (excluding radiant underfloor heating)
  - Plasterboard screed
  - Old tiles
  - Sanded paintwork
  - Old adhesive
  - Wood panels (CTB-H/CTB-X/OSB3)
- N.B. Residual moisture content when rendering must be compliant with that specified in the relevant documents (CPT, DTU, AT) for the substrates or coverings concerned.

### Indicative drying times before applying a new floor finish over an existing floor

Covering material	Drying time
Tiles, carpet	6 to 8 hours
Vinyl tiles or sheet	12 to 24 hours
Paint, epoxy resin <sup>(2)</sup>	12 to 24 hours
Bonded woodstrip <sup>(2)</sup>	24 hours

Ensure that the self-leveller is suitably dry for the associated floor covering but is not left uncovered for more than 8 days

### TECHNICAL CHARACTERISTICS

- **Appearance:** grey powder
- **Apparent powder density:** 1.2 ± 0.1
- **Particle size:** 0 to 0.5 mm
- **Composition:** hydraulic binders, mineral fillers and specific additives

### PERFORMANCE DATA <sup>(3)</sup>

- **Self-levelling capacity:** 20 minutes
- **Pot life:** 30 minutes (± 5 minutes)
- **Return to light traffic:** 4 hours (± 1 hour)
- **Initial bonding after 28 days (MPa):** ≥ 1.5
- **Flexural strength class:** F5
- **Compressive strength class:** C25

### INSTRUCTIONS

#### SUBSTRATE PREPARATION

- Substrates must be compliant with building regulations in force, e.g. for France, DTU and CPT standards.
- Substrates must be clean, solid, sound and free of cracks, oil and traces of plaster, wax and any other product which may affect bonding.
- Scrape, brush off or vacuum clean all traces of plaster, laitance, paint, adhesive, wall render and P2 or P3 levelling mortar.
- Substrates bearing excessive traces of wax, grease or paint must be stripped.
- In all cases, substrates must be dust-free.
- For thicknesses above 2 cm, substrate cohesion must be greater than 0.7 MPa.
- Before using this self-levelling mortar, a primer suitable for the specific substrate must be applied (see primer table overleaf).
- For substrates subject to rising damp, apply **167 PRIMAIRE ANTI-REMONTEÉ D'HUMIDITÉ\*** in association with **164 PROLIPRIM RAPID\*** or **GS 20 SAND\***.

#### Preparation for heated floors

- Shut down underfloor heating systems 48 hours before application.
- The underfloor heating can be gradually restored 48 hours after applying **176 SOL 4000**.

#### Preparation for P4/P4S premises

- Systematically shot-blast all concrete substrates and sand screed surfaces. Remove all dust with a vacuum cleaner.
- Substrate cohesion must be greater than 0.8 MPa for communal use kitchens and screed and greater than 1 MPa for concrete.

# 176 SOL 4000

2/2

## FOR BEST RESULTS

- ▶ Prepare the substrate well to ensure that it is sound, clean and dust free.
- ▶ For optimum product performance always comply with the **water dosage recommendations** of the technical data sheet.
- ▶ Protect from draughts and the sun for the first few hours.
- ▶ In cold weather use water at a temperature above 10°C for mixing.
- ▶ When **176 SOL 4000** is to be left bare, once dry, apply 2 coats of **241 LANKO RESIST DURCISSEUR\*** surface hardener allowing a minimum interval of 30 minutes between coats.

## PACKAGING

- ▶ 25 kg bag

## STORAGE

- ▶ 9 months

from date of manufacture if stored in unopened original packaging in dry conditions

## WARRANTY

- ▶ > Manufacturer's liability

## ■ PRODUCT PREPARATION

- Mix one 25kg bag of **176 SOL 4000** with 5.75 to 6.25 litres of clean water, i.e. 23 to 25% water content, to obtain a thick, smooth and lump-free fluid mortar.
- Use a high-speed paddle mixer
- Leave the mixture to stand for 3 to 5 minutes.
- Re-mix to a fluid consistency just before application.

## ■ APPLICATION

- Install edge separation using a compressible strip at least 3 mm thick applied to the perimeter of the room and to any pillars or columns (5 mm thickness on heated flooring).
- Apply the product to the substrate in one go, using sweeping strokes of a stainless steel float.
- On forward strokes, hold the float almost vertical in order to remove air bubbles. On backward strokes, hold the float almost horizontal in order to obtain the required thickness.
- If a spiked roller is used for removing air bubbles, this action should be performed immediately, before the mortar begins to set.

## Permissible thicknesses

- **P2 to P4S premises:** 3 to 30 mm
- **P2 to P3:** for localized thicknesses up to 40 mm(4): mix 5 litres of fine 0/4 mm sand per 25 kg bag of **176 SOL 4000**.
- Where a second coat is required, apply as soon as first coat is viable and still wet. Thickness of 2nd coat must be less than the 1st coat and the total thickness must not exceed 30 mm. If the 2nd coat is applied more than 24 hours after the 1st coat apply a primer coat of **124 PROLIPRIM\*** or **165 PROLIPRIM UNIVERSEL\***.

## Primer guide

Substrate type	Suitable primers				
	165 PROLIPRIM UNIVERSEL	164 PROLIPRIM RAPID	124 PROLIPRIM	162 PRIMAPRÈNE PLUS	167 PRIMAIRE ANTI-REMONTÉE D'HUMIDITÉ
Woodstrip		■			
Other wood substrates	□	■		□	
Porous	■	□	■		■
Absorbent	■	■	■	□	■
Smooth or sealed	■	■		■	■
Potential rising damp					■

Primer must be covered within 24 hours. If not, a new coat of primer must be applied.

■ Recommended □ Permissible

**TECHNICAL SUPPORT:** 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

**0 826 08 68 78** Service 0,15 € / min + prix appel

## TECHNICAL DATA SHEET - March 2021

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](http://www.parexlanko.com)

**PARExGROUP S.A.** 19 place de la Résistance - CS 50053  
92445 Issy-les-Moulineaux Cedex - Tél. (33) 01 41 17 20 00  
**PARExLANKO** is a brand of Sika group.

**PARExLANKO**

\* Please refer to the relevant Technical Data sheet - (4) loss of self-smoothing capacity.

## PRÉCAUTIONS D'EMPLOI

- Temperature range for use: 5°C to 35°C
- Please refer to the Safety Data Sheet before use.
- Always comply with PPE recommendations in the Safety Data Sheet.