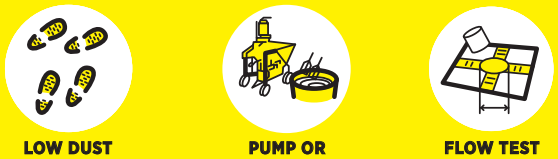
# weberfloor fibre rapid 4320

## Rapid drying self-smoothing base & renovation screed

- Can be covered in as little as 16 hours
- Fibre reinforced for use on underfloor heating and insulation
- Ideal for most final floor coverings



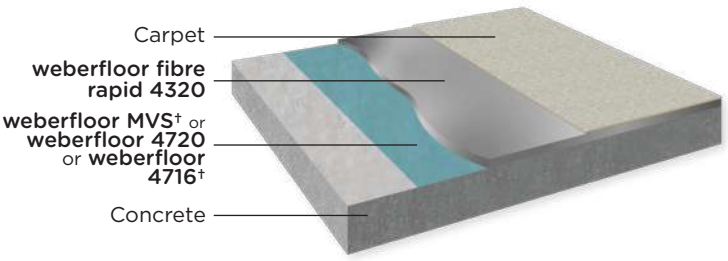

### About this product

**weberfloor fibre rapid 4320** is a pump or hand applied, rapid drying, self-smoothing, fibre-reinforced base or renovation screed for floors, with Low Dust Technology™, which gives a strong base layer for receiving tiles or a thin topping screed. The product is formulated from special cements, aggregates and chemical admixtures.

**weberfloor fibre rapid 4320** is designed for the use in domestic and commercial areas. Rapid drying technology allows our quickest overlay compared to traditional sand/ cement, concrete or anhydrite screeds. It is ideal for the renovation of existing floors and floating floor constructions.

### Features and benefits

- For application depths between 5-50mm
- Weber Low Dust Technology™ improves comfort of applicators
- Pump or hand applied
- Rapid drying
- Foot traffic after 1-3 hours
- Tile after 12 hours
- Final floor covering installed in as little as 16 hours
- Fibre modified for added durability
- Low alkalinity
- Casein-free
- Low emissions




† if required, dependent on insulation type

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## Uses

For levelling bonded, unbonded and floating substrates:

- Concrete
- Sand/ cement screeds
- Anhydrite screeds
- Wooden boards
- Under-floor heating/warming
- Insulation boards
- Existing tiles
- Bitumen

Suitable for covering with:

- Tiles
- Timber laminate
- Vinyl/ Linoleum
- Carpet
- Laminate flooring
- Parquet flooring*

* May require extended time before covering

## Constraints

- Not a wearing screed and must be covered.

## Preparation

The surface strength of the substrate must be greater than 1N/mm$^2$

It is essential the substrate is suitably prepared and primed with **weberfloor 4720 epoxy primer** or **weberfloor 4716 primer** prior to installing the weberfloor screed. **weberfloor 4720 epoxy primer** is an ideal choice for industrial construction and detailing applications providing bond strength and priming layer between the substrate and weberfloor screed. It is also efficient in large areas with coverage of approx. 3.17m$^2$ per kg per mixed components and can be suited for moisture-sensitive surfaces. **weberfloor 4716 primer** is a styrene acrylate dispersion which can be diluted with water, offering alkali resistance and adhesion properties.

The substrate should be clean, free from dust, grease and other impurities that might prevent adhesion.

Walls and any upstands (pillars, columns etc) should be isolated with 10 x 100mm foam.

Large irregularities in the substrate (>50m) should be filled in with a application of **weberfloor base rapid 4360**, this should be allowed to harden and then primed before application of **weberfloor fibre rapid 4320** can begin.

Holes and leaks in the substrate should be sealed. The substrate should be vacuum cleaned, prepared and primed with **weberfloor 4720 epoxy primer** or **weberfloor 4716 primer** according to the instructions on the data sheet.

Priming improves the screed's adhesion to the substrate and prevents the formation of air bubbles and de-watering of the screed. Priming also improves the flow properties of the screed. Dry and very porous substrates (cast-in-situ concrete floors) may need to be treated twice. If the screed is applied in more than one layer, each layer must be primed.

## Mixing

**weberfloor fibre rapid 4320** is mixed with clean water using an automatic screed mixer approved by Weber.

The material is mixed with 20% water, which corresponds to 5.0 litres per 25kg bag. It is important to add only the specified amount of water as excess water will reduce strength, increase shrinkage and encourage segregation. Whilst mixing, the water content should be checked continuously by the flow ring test to ensure that the material is correctly mixed and free from separation and lumps of powder. The flow rate should be between 220-235mm . Conversely, reducedwater content increases viscosity. The temperature of the mix should ideally be between +15°C and +20°C.

For manual mixing thoroughly mix using a slow speed electric mixer (500 rpm) for at least two minutes. Allow to stand for 2 minutes.

## Application

Light ventilation in the working area is necessary but windows and door openings must be closed sufficiently to avoid draughts during and for 3 days after application.

During application, and for at least 1 week afterwards, the substrate and ambient temperature should not fall below +10°C or rise above +25°C. The relative humidity of the substrate must be <95%.

To achieve the best finish, the floor area should be divided into bays of 6 to 8 metres depending on pump capacity and application thickness. **weberfloor 4965 barrier foam** should be used to form bays and stop ends. Pumping is carried out in sections so that a new section is pumped as quickly as possible and to maintain a wet edge. A wide flat spatula or wobble bar should be used to assist the self-levelling process.

In addition to solid bonded substrates **weberfloor fibre rapid 4320** can be applied to a range of other substrates including flooring grade insulation boards, timber floors, underfloor heating and bitumen. For old and established bitumen only priming is required. However, for other substrates the minimum application thicknesses stated must be observed and **weberfloor 4945 fibre mesh** may be required. For further information, please contact Weber.

## Overlay

**weberfloor fibre rapid 4320** is compatible with most common floor finishes and adhesives.

It should not be painted or used without a floor finish.

## Covering Time

The screed can receive foot traffic after a drying time of 1-3 hours at an ambient temperature of +20°C. If necessary, the surface can be ground after 2 days following application.

Floor covering can be installed in as little as 16 hours, depending on layer thickness and site conditions. Covering time testing has been carried out at 5mm in conditions of 23°C and 50% RH. In identical conditions, with 50mm thickness, drying times will be extended to 4 days. Site conditions such as temperature and humidity will have an impact on covering times and should be taken into account.

High humidity of the substrate and poor drying conditions prolong the setting and covering time.

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## Packaging

**weberfloor fibre rapid 4320** is packed in 25kg polythene-lined paper sacks.

## Storage and shelf-life

When stored unopened in a cool, dry place at temperatures above 5°C, shelf life is 12 months from date of manufacture.

Poor storage conditions may have an adverse impact on the levelling properties.

## Health and safety

Please see latest material safety datasheet via our website for information.

## Technical data

| | |
|---|---|
| Application temperature | +10°C to +25°C |
| Minimum substrate strength | 1N/mm² |
| Minimum thickness (bonded) | 5mm |
| Minimum thickness (underfloor heating) | >15mm over the heating pipes |
| Minimum thickness (over slip membrane, solid substrate) | 20mm |
| Minimum thickness (floating floor i.e. insulation board) | 25mm (with **weberfloor 4945 fibre mesh**) |
| Maximum thickness | 50mm |
| Water demand | 5 litres/ 25kg (20%) |
| Compressive strength | C 30 |
| Flexural strength | F 7 |
| Shrinkage (28 days) | < 0.06% |
| Weber flow rate | 220 – 235mm |
| Approx. material consumption | 1.7kg/ m² / mm |
| Hardening time (before foot traffic) | 1-3 hours in normal conditions |
| Pot life | 20 min (after adding water) |
| Wear resistance (RWA Class) at 5mm and 16 hours before covering** | RWFC 550 |
| Wear resistance (RWA Class) at 50mm and 4 days before covering** | RWFC 550 |

** Tested in accordance with EN 13892-7

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