



Summary

The RESION FS302 thin epoxy floor coating provides a durable finishing layer for concrete, cement or wooden floors. Easy to apply, it quickly becomes walkable. This product constitutes step 3 of our 5-step system to obtain the desired floor.

Application

Provides floors with a strong, seamless, waterproof and easy-to-clean surface.

This coating is mainly used in:

- Laundry rooms
- Hangars and garages
- Storage areas
- Commercial buildings
- Warehouses
- etc.

Properties

- Easy roller application
- Solid colour finish
- Generous coating thickness with good wear resistance
- Waterproof

Application Advice

Preparation

First follow the steps of our 5-step system, described in the booklet supplied with your order.

Step 0: Preparation

Step 1: Primer

Step 2: Substrate improvement (optional)

Refer to the relevant technical data sheets for detailed application instructions.

After applying the primer (step 1) and, if applicable, the smoothing or levelling layer (step 2), apply the coating within 48 hours for optimal adhesion without sanding.

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Read the instructions in this technical datasheet carefully.
If you have any questions, please contact us.

Mixing Instructions

The FS302 resin floor coating consists of three components that must be mixed just before application.

1. Open FS302 (large container).
2. Add the pigment (EP901, small container). The pigment will not change colour during use. Check that the colour is correct before adding the pigment.
3. Next, add the FS312 hardener. This is the tub or bottle.

Note: FS302 flooring is available in three sizes. Make sure you pour the correct amount from the bottle or tub into the tub. The correct amount is also indicated on the tub, on the summary sheet provided with your delivery, and in the table below:

Resion Epoxy floor coating	Base (A)	Hardener (B)	Pigment
	FS302	FS312	EP901
3.75 kg pack	2.78 kg	0.675 kg	300 grams
11 kg pack	8.22 kg	2 kg	880 grams
25 kg pack	18.5 kg	4.5 kg	2 kg

4. Mix the components thoroughly using a spiral mixer. Mix the sides and bottom of the bucket well. Once the mixture is homogeneous, mix for one additional minute.
5. Apply immediately after mixing. Pot life starts once mixing is complete.

Application Method

1. Pour a small amount of the coating into a paint tray or mixing cup. You can use this to apply the resin around the edges of the floor. To speed up the application, it is best to have a second person on hand. The first person can then start applying the coating straight away.
2. Pour the rest of the flooring compound onto the floor, in a single strip over the area you are about to cover with the prepared amount. Pour the rest onto the floor, one strip at a time. Do not let the bucket empty directly onto the floor ; this could cause soft patches.
3. Spread the flooring compound using a squeegee.
4. Roll it out in a criss-cross pattern. Once the flooring has been spread evenly, you can roll it in a single direction.

You can also pour the flooring in thin strips, then spread it out with a roller. Roll it out again in a criss-cross pattern, then in a single direction.

Professional tips:

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- Make sure you empty the bucket containing the coating quickly.
A full bucket hardens more quickly, sometimes even faster than the normal pot life. To avoid this problem, pour at least half of the coating onto the floor, even if the edges still need finishing. It is therefore helpful to have someone assist you who can brush or roll the edges. This saves time and reduces the risk of premature hardening. Furthermore, a floor coating defoams less effectively towards the end of the pot life than at the start.

- Do not tip the bucket upside down onto the floor.
The bucket always contains unmixed product on the sides and bottom. This will then settle on the floor and form a soft patch.

Technical Specifications

- Liquid-tight
- Solvent-free
- Easy to apply
- Cost-effective
- Good covering power
- Easy to clean, anti-slip
- Good chemical and mechanical resistance

Test	Value	Test method
Electrical resistance	>100 GΩ	
Viscosity	1600–1900 mPa·s ⁻¹	Brookfield LV3, 30 rpm, 23°C
Density	1.64 g/cm ³	ISO 2811-1, 23°C / 50% HR
Shore hardness	>D90	DIN 53505, 14 days / + 23°C / 50% HR
Compressive strength	>70 N/mm ²	ISO EN 196-1, 28 days / + 23°C / 50% HR
Flexural strength	>40 N/mm ²	ISO EN 196-1, 28 days / + 23°C / 50% HR
Tensile strength	>1.5 N/mm ² (concrete failure)	EN 4624, 14 days / + 23 °C / 50% HR

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Taber abrasion resistance

CS10	10N load	0 - 500 cycles	+/- 20 mg	
CS10	10N load	500 - 1000 cycles	+/- 20 mg	Total after 1000 cycles +/- 40 mg
CS10	10N load	1000 - 1500 cycles	+/- 16 mg	Total after 1500 cycles +/- 56 mg
CS17	10N load	0 - 500 cycles	+/- 28 mg	
CS17	10N load	500 - 1000 cycles	+/- 32 mg	Total after 1000 cycles +/- 60 mg
CS17	10N load	1000 - 1500 cycles	+/- 37 mg	Total after 1500 cycles +/- 100 mg

Aspect and Consumption

Component A:	Liquid, coloured		
Component B:	Liquid, transparent to light yellow		
Mixing ratio (by weight):	Component A	:	Component B
	83.33	:	16.67
Consumption:	400–800 g/m ²		

Almost all RAL, NCS and SIKKENS colours are available. Other colours are also available on request.

Application in stages and the use of different batch numbers within the same project may result in slight colour variations. Always order all materials for a single project at the same time.

Discolouration and colour variations may occur in direct sunlight; this does not affect the functionality or performance of the coating.

Application Conditions

Substrate temperature:	min. 10°C – max. 30°C
Ambient temperature:	min. 10°C – max. 30°C
Substrate moisture:	<4%
Relative humidity:	max. 75% HR

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Dew point: Substrate temperature and uncured material must be at least 3°C above the dew point to prevent condensation and adhesion issues.

Pot Life and Curing

Pot life:
70 minutes at 10°C
40 minutes at 20°C
25 minutes at 30°C

Please note! When the container holds large quantities, the processing time may be reduced or the material may even set very quickly. Ensure that the material is spread as quickly as possible.

Walkable: 24 hours at 20°C
Light load: 48 hours at 20°C
Fully cured: 7 days at 20°C

Notes

Do not apply the coating to substrates affected by rising damp.

The freshly applied coating must be protected from moisture, condensation and water for at least 24 hours.

Any imperfections in the substrate and any impurities will remain visible after the application of a thin layer of filler. Consequently, the substrate and adjacent surfaces must be pre-treated and thoroughly cleaned.

Apply the mixed product immediately, as fluidity and de-bubbling decrease as the pot life nears its end. Incorrect assessment and treatment of cracks may lead to a reduction in service life and the formation of recurring cracks.

Underfloor heating or high ambient temperatures, combined with high point loads, may, under certain conditions, leave marks in the resin.

When heating, do not use gas, oil, paraffin or other fossil fuel burners.

These produce large quantities of CO₂ and water vapour (H₂O), which can affect the finish.

Use only electrically ventilated hot-air heating systems.

RESION epoxy flooring is not suitable for cleaning with water at temperatures exceeding 40 °C.

Handling

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Wear nitrile gloves and safety goggles. In unventilated areas, wear a vapour-proof mask.

Storage and Shelf Life

Up to 12 months from production date in unopened original packaging.
Store dry between +5°C and +30°C.

Troubleshooting

Consult the online troubleshooting guide for floor systems:

<https://polyestershoppen.fr/info/probleemoplosser-vloersystemen>