

Floor coating with epoxy resin

The ideal protective coating for warehouses, garages, basements, concrete floors and much more.

Our system is a pigmented, two-component epoxy resin with increased mechanical wear resistance and chemical resistance, this coating can be filled and sprinkled with fire-dried aggregates.

Our EP coating is transparent and available in many colors, please select the RAL color when ordering.

Pros:

- High resistance to chemicals and bacteria
- Very good anti-slip function
- Very easy to clean
- Resistant to oil and lubricants
- Individual design through paint and color chips for sprinkling



Preparation of the surface

Every coating is only as good as its substrate.

The surface must be **dry, free of oil, dirt, dust, load-bearing and** must have a minimum temperature of 10°C. Contamination with oil or other chemicals must be removed with acetone.

Always allow parts treated with acetone to air for 2-3 hours.

Check the floor for strength, loose layers such as brittle old paints and deposits must be removed. Smaller surfaces can be roughened with suitable abrasives or steel brushes. However, sanding and brushing is not suitable for all surfaces. The optimal preparation is milling and shot blasting of the surface, especially for old coatings and reactive resin coverings. During milling, several millimeters of the old surface are removed. The surface is then reworked by shot blasting.

Cavities must be eliminated, check the floor by tapping.

Thoroughly inspect the cleaned surface for cracks and seal it force-locked.

Degree of drying – the moisture content should be $\leq 4\%$.

Also check the absorbency, splash a few drops of water on the surface. If the water is not absorbed, you will also need to sand the surface thoroughly. Always vacuum the floor thoroughly afterwards.

Primer

Our EP primer is used as a primer for our coloured coating. It has very good penetration behaviour and very good adhesion to concrete, screed, wood, metal, polystyrene, GRP, etc. It is a binder for scratch, cavity and levelling fillers as well as an adhesive bridge for reactive resin coatings. Apply the carefully stirred mixture with a brush.

Processing:

- Mixing ratio 100pcs / 50pcs (100pcs resin / 50pcs hardener)
- Processing temperature from 10°C
- Processing time (at 20°C) approx. 40 - 45min
- Curing time (at 20°C) approx. 24 - 30 hours
- Quantity depending on floor conditions (screed-concrete approx. 200g/m²)



Floor coating

Mix the resin and hardener of our EP coating (mixing ratio 3 parts resin / 1 part hardener) with a drill and our Uni stirring rod. The mixing ratio must be strictly adhered to, use a scale. To achieve a homogeneous mass, repot the mixture (repot = pour mixture into a second mixing bucket). Stir intensively again 2-3 minutes around. Material that is not evenly stirred dries differently, resulting in a loss of properties. All the air should have escaped from the mixture.

You have to mix the mixed amount within Process for 40 mins. (note the time). To apply, use our laminating roller with telescopic rod. In the corners, use a brush. Apply the mixture in strips, making sure that there is an even overlap. We also recommend that you wear our spiked soles. Simply strap these under your work shoes, and you can go over your still liquid coating to bleed it with a spiked vent roller. Now you can sprinkle in color chips to create custom effects.

Sanding is now also still possible to achieve an anti-slip effect.



Processing:

- Mixing ratio 3 / 1 (3 parts resin / 1 part hardener)
- Processing temperature from 10°C
- Processing time approx. 40min (at 20°C)

- Walkable after approx. 12 hours (at 20°C, 50% relative humidity)
- Layer thicknesses of 1-5mm, at least 1.2kg/m² should be applied
- After about 10-12 days completely hardened.



Abstract

1. Prepare the substrate
 - 1.1. Strength testing
 - 1.2. Old paints, removing deposits
 - 1.3. Eliminate cavities
 - 1.4. Eliminate cracks and unevenness
 - 1.5. Degree of Drying – Determine Moisture Content
 - 1.6. Cleaning, vacuuming
2. Mix primer (100 parts resin / 50 parts hardener)
3. Apply primer (application time 40-45min.)
4. Allow primer to cure (24-30 hours)
5. Clean the substrate (vacuum)
6. Mix the coating (3 parts resin / 1 part hardener)
7. Apply coating (application time approx. 40min at 20°C)
8. Vent coating (spike vent roller)
9. Sprinkle or sand off any color chips
10. Allow the coating to harden, can be walked on after approx. 12 hours
11. completely cured after approx. 10-12 days

Materials

1. EP primer
2. EP coating
3. Acetone
4. Lamination set 6 with telescopic rod
5. Uni stirring rod with drill
6. Sandpapier
7. Industrial vacuum cleaners
8. Mixing bucket
9. Libra
10. Brushes
11. Spike Vent Roller
12. possibly color chips
13. Spiked soles
14. Disposable gloves
15. Respirator
16. Safety Glasses



If you have any questions, please do not hesitate to contact us.

Our team will be happy to help you.

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The use and processing of our products on the basis of our instructions is beyond our influence and is the sole responsibility of the user.

The user is not exempt from checking the suitability and possible applications for the intended purpose. We are grateful for suggestions for improvement and information on errors.