Floortec PU Floor Sealer ELF 847

Floortec PU-Bodensiegel ELF 847

silk matt, abrasion-resistant, water-dilutable, solvent-free, AgBB-tested, low-odor, weather-resistant, for both exterior and interior use

Properties

Single-component, solvent-free floor sealer as a polyurethane acrylate hybrid system. Silk matt, abrasion-proof, weather-resistant, hardwearing, with good covering and flow capacity, easy to apply. The surface is easy to clean, with low dirt adhesion and good mechanical resistance thanks to high surface hardness. In addition, the material can resist short-term exposure to diluted lyes and acids. For additional surface design, Floortec Dekochips 843 can be scattered into the topcoat. In system build-up tested as an anti-skid coating (assessment classes R 10) according to DIN 51130 and BGR 181.

Field of Application

For pigmented sealing of floor surfaces not exposed to vehicle traffic, with low to medium load exposure (normal walking load). For use in residential buildings and storage areas, e.g. basements, utility/hobby and similar rooms.

Can be used for exterior surface protection on balconies and loggias exposed to weathering. Can be applied to absorbent cement-bound mineral substrates, e.g. cement screed and concrete as well as mastic asphalt (interior) and similar substrates. With additional reinforcement it can also be used on substrates requiring hair crack filling . For floor surfaces exposed to higher loads or vehicle traffic, e.g. garages and rooms with forklift traffic, we recommend using a 2C coating system.

Material description

Standard colors:

Scala	Bezeichnung
03.03.18	RAL 7030 stone gray
90.03.18	RAL 7032 pebble gray

Many other colors can be mixed using the Brillux Color System. Additional color designs are possible with Floortec Dekochips 843.
Gloss grade: silk matt
Material basis: Polyurethane acrylate hybrid system
Contents: Polyacrylate dispersion, polyurethane dispersion, titanium dioxide (depending on color), inorganic/organic color pigments (depending on color), silicates, barium sulfate, water, additives and preservatives (Benzisothiazolinone and Methylisothiazolinone).
Density: approx. 1.2 g/cm³
Packaging:
Standard colors: 2.5 l, 10 l
Color System: 2.5 l, 10 l

Use

Thinning

If used as a prime coat, dilute with water up to approx. 20%. As an intermediate and topcoat apply the material unthinned if possible.

Tinting

All colors can be mixed with one another.

Compatibility

Only mixable with similar materials and those specified in this Data Sheet.

Application
Apply Floortec PU Floor Sealer ELF 847 uniformly using a paintbrush or a roller. Stir thoroughly before use.

Prime cracked surfaces as required for partial or full reinforcement. Apply one coat of Floortec PU Floor Sealer ELF 847 generously on primed surfaces and embed Elastic Fiber 1566 (overlapping by at least 5 cm) in the wet film. Cover individual cracks with 15 to 20 cm. fiber strips. Further system build-up can be continued once the coat has dried sufficiently.

Consumption (per layer)
Prime coat: approx. 150 ml/m²

Intermediate and finish coat:
approx. 200 ml/m², unthinned

For fiber embedding:
approx. 500 ml/m²

Determine exact consumption by a test application on the object. For a tested, anti-skid system build-up, the consumption specifications indicated in the relevant test certificate apply.

Application temperature
Do not apply if air, substrate and/or material temperature is below +5°C. Note dew point temperature. Make sure the temperature is at least 3°C above the dew point. The relative humidity must not exceed 80%.

Tool cleaning
Immediately after use with water. Using a typical household cleaner makes cleaning easier.

Drying (+20 °C, 65 % r. m.)

Ready to withstand walking loads and application of next coat after approx. 5 to 6 hours. Loadable after approx. 3 days. Cured after approx. 7 days. Sealing with Floortec 2C PUR Matt Sealer 844 or Floortec 2C PUR Gloss Sealer 845 possible after 24 hours at the earliest. In case of low temperatures and/or high humidity, allow for a longer drying time.

Storage

Cool and frost-free. Close opened containers tightly.

Declaration

Water pollution classification
WGK 1, according to VwVwS

Product code
M-DF01

Comply with the specifications in the current safety data sheet. For information for persons suffering from isothiazolinone allergies call +49 (0)251 7188-403.

Disposal

Only completely emptied containers may be recycled. Dispose of liquid material residues at official used paints disposal facilities.

Building up the coating

Surface preparation
The substrate must be solid, dry and clean, with good grip, load-bearing, dimensionally stable, and free from any separating agents and protected against increasing humidity. In case of moisture exposure, sufficient water drainage must be ensured. Remove non-bearing layers mechanically, e.g. laitance,. Wash and sand old intact oil paint and varnish coats thoroughly. Smooth floor surfaces must be roughened to improve adhesion. Intact, load-bearing old coats must be free from plasticizers. After priming, fill any minor damaged areas on mineral substrates with a mixture suitable for filler knife application of Floortec PU Floor Sealer ELF 847 and Floortec Quartz Sand 1526 to create a smooth surface. Fill any large damaged areas using repair mortar from the Brillux Concrete Protection System to create a smooth surface. Also refer to VOB Part C, DIN 18363, Par. 3.

System build-up Floortec PU Floor Sealer ELF 847
Standard design

Substrates	Prime coat	Intermediate coat	Topcoat [1)]	Sealer [2)]
untreated, absorbent interior floor surfaces, e.g. concrete and screed surfaces, mastic asphalt	Floortec PU Floor Sealer ELF 847, diluted with water (approx. 20 %)	Floortec PU Floor Sealer ELF 847	Floortec PU Floor Sealer ELF 847	Floortec 2C PUR Gloss Sealer 845 or Floortec 2C PUR Matt Sealer 844
untreated, absorbent exterior floor surfaces, e.g. concrete and screed surfaces	2C Aqua Epoxy Primer 873			
untreated, low-absorbent or non-absorbent floor surfaces, e.g. exterior and interior compacted concrete and screed surfaces				
appropriate coating, exterior and interior				

[1)] For further surface designs, Floortec Dekochips 843 can be scattered into the wet topcoat. These surfaces must be additionally sealed using Floortec 2C PUR Matt Sealer 844 or Floortec 2C PUR Gloss Sealer 845. Note additional information in “Note“.

[2)] For very light or intense colors of the Brillux Color System, we recommend overcoating the surfaces with a 2C PUR sealer (colorless) in order to improve cleanability and strain resistance. Note additional information in “Notes“.

System build-up Floortec PU Floor Sealer ELF 847, anti-skid variant R 10
Categorized as anti-skid class R 10 according to DIN 51130 and BGR 181,
test certificate No. 12 6339-S/11

Substrates	Prime coat	Intermediate coat	Topcoat	Sealer
untreated, absorbent interior floor surfaces, e.g. concrete and screed surfaces, mastic asphalt	Floortec PU Floor Sealer ELF 847, diluted with water (approx. 20%). Consumption: approx. 150 ml/m²	Floortec PU Floor Sealer ELF 847. Consumption: approx. 200 ml/m²	Floortec PU Floor Sealer ELF 847. Consumption: approx. 200 ml/m² with scattered Floortec Dekochips 843. Consumption: approx. 40 g/m²	Floortec 2C PUR Matt Sealer 844. with 3% by weight Floortec Safe-Step 841. Consumption: approx. 100 g/m²
untreated, absorbent exterior floor surfaces, e.g. concrete and screed surfaces	2C Aqua Epoxy Primer 873. Consumption: approx. 140 g/m²			
untreated, low-absorbent or non-absorbent floor surfaces, e.g. exterior and interior compacted concrete and screed surfaces				
appropriate coating, exterior and interior				

System build-up Floortec PU Floor Sealer ELF 847, with reinforcement
crack-filling using Elastic Fiber 1566

Substrates	Prime coat	Reinforcement	Intermediate and topcoat[1)]	Sealer [2)]
untreated, absorbent interior floor surfaces, e.g. concrete and screed surfaces, mastic asphalt	Floortec PU Floor Sealer ELF 847, diluted with water (approx. 20%)	partial or full reinforcement, as required, using Elastic Fiber 1566, embedded in Floortec PU Floor Sealer ELF 847	each with Floortec PU Floor Sealer ELF 847	Floortec 2C PUR Gloss Sealer 845 or Floortec 2C PUR Matt Sealer 844
untreated, absorbent exterior floor surfaces, e.g. concrete and screed surfaces	2C Aqua Epoxy Primer 873			
untreated, low-absorbent or non-absorbent floor surfaces, e.g. exterior and interior compacted concrete and screed surfaces				
appropriate coating, exterior and interior				

[1)] For further surface designs, Floortec Dekochips 843 can be scattered into the wet topcoat. These surfaces must be additionally sealed using Floortec 2C PUR Matt Sealer 844 or Floortec 2C PUR Gloss Sealer 845. Note additional information in “Notes“.

[2)] For very light or intense colors in the Brillux Color System, we recommend overcoating the surfaces with a 2C PUR sealer (colorless) in order to improve cleanability and strain resistance. Note additional information in “Notes“.

Notes

Safety measures
When working with varnishes observe normal safety measures. Keep away from children. During spray application use combination face mask filter A2/P2. When sanding use face mask dust filter P2. Provide proper ventilation during processing and drying. Do not eat, drink or smoke during application.

In case of contact with eyes or skin, rinse immediately with plenty of water. Make sure that the material cannot leak into a sewage system, water sources or soil.

Coating connected surfaces
Only use material of the same batch number or from one production batch (tinting) for connected surfaces.

Plasticizers
Keep paint away from plastic materials containing plasticizers, e.g. profiles/sealing materials and vehicle tires.

Design with brilliant or intense colors
Pure intense color shades, e.g. in the yellow, orange, red, magenta and yellow-green range, have a lower covering capacity. When using color shades in these color ranges, we recommend applying a full-cover base coat in the corresponding base color ("Basecode"). In addition to the standard coating build-up, further coats may be required.

Protection against soiling
With light or pure colors, dirt and signs of wear and tear are more apparent than with dark or subdued colors. As protection against premature soiling and to increase the cleanability and strain resistance of pigmented surfaces we recommend applying an additional colorless sealer such as Floortec 2C PUR Matt Sealer 844 or Floortec 2C PUR Gloss Sealer 845.

Transparent sealer-treated surfaces
With additional application of Floortec Dekochips 843 and Floortec 2C PUR Matt Sealer 844 or Floortec 2C PUR Gloss Sealer 845, the range of applications of this floor coating is not increased. Surfaces treated with Dekochips and transparent sealer have the properties of the transparent sealer used. They are generally only suitable for areas exposed to medium loads (simple walking loads) and not suitable for vehicle traffic loads.

Adverse visual effect
Organic substances and chemicals (e.g. tea, coffee, red wine, plant parts and leaves as well as disinfectants and acids, etc.) can cause color changes of the coat. Quality and function will not be influenced by such optical changes.

Prohibited applications
Do not apply on surfaces exposed to vehicle traffic or on surfaces with continuous water/moisture impact.
Floortec PUR Floor Sealer ELF 847 is not applicable as a building sealer according to DIN 18195 or the flat roof directive issued by ZVDH e. V.

Mastic asphalt
Mastic asphalt screed –after 6 months of curing – can generally be coated only in interior applications. Mastic asphalt screed must correspond to hardness class IC 15. In addition deformation caused by temperature impact, e.g. UV radiation or mechanical strain, must be avoided.

Cleanability of anti-slip coats
Anti-slip coats increase safety, but are more sensitive to dirt due to their roughness and are not as easy to clean as smooth surfaces.

Service life
Seals and coats on floor surfaces are subject to wear and tear, depending on use. Individual service life largely depends on layer thickness and stress intensity.

Cleaning and care
For cleaning and maintenance of the sealed floor surfaces, refer to the separate description "Cleaning and maintenance instructions 847p".

Further specifications
Also comply with the information given in the data sheets of the other products used.

CE Marking

CE

2011

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EN 13813 SR–B2,0–AR1–IR4

Floortec PU Floor Sealer ELF 847

Fire behavior	E_{fl}
Release of corrosive substances	SR
Water permeable	KLF / NPD
Water vapor permeability	KLF / NPD
Wear resistance	AR1
Adhesive tensile strength	B2.0
Impact resistance	IR4
Impact sound insulation	NPD
Sound absorption	NPD
Thermal insulation	NPD
Chemical resistance	NPD

NPD – "No Performance Determined"

Remark

This Data Sheet was prepared taking into account the German laws, Standards, specifications and Codes of practice. All details were translated on the basis of the current German version. The contents do not form part of a legal contract. The user/purchaser is not released from the responsibility of checking that our products are suitable for the proposed use. In addition our general business conditions apply.
When a new version of this Data Sheet appears with updated information the previous version loses its validity. Version II

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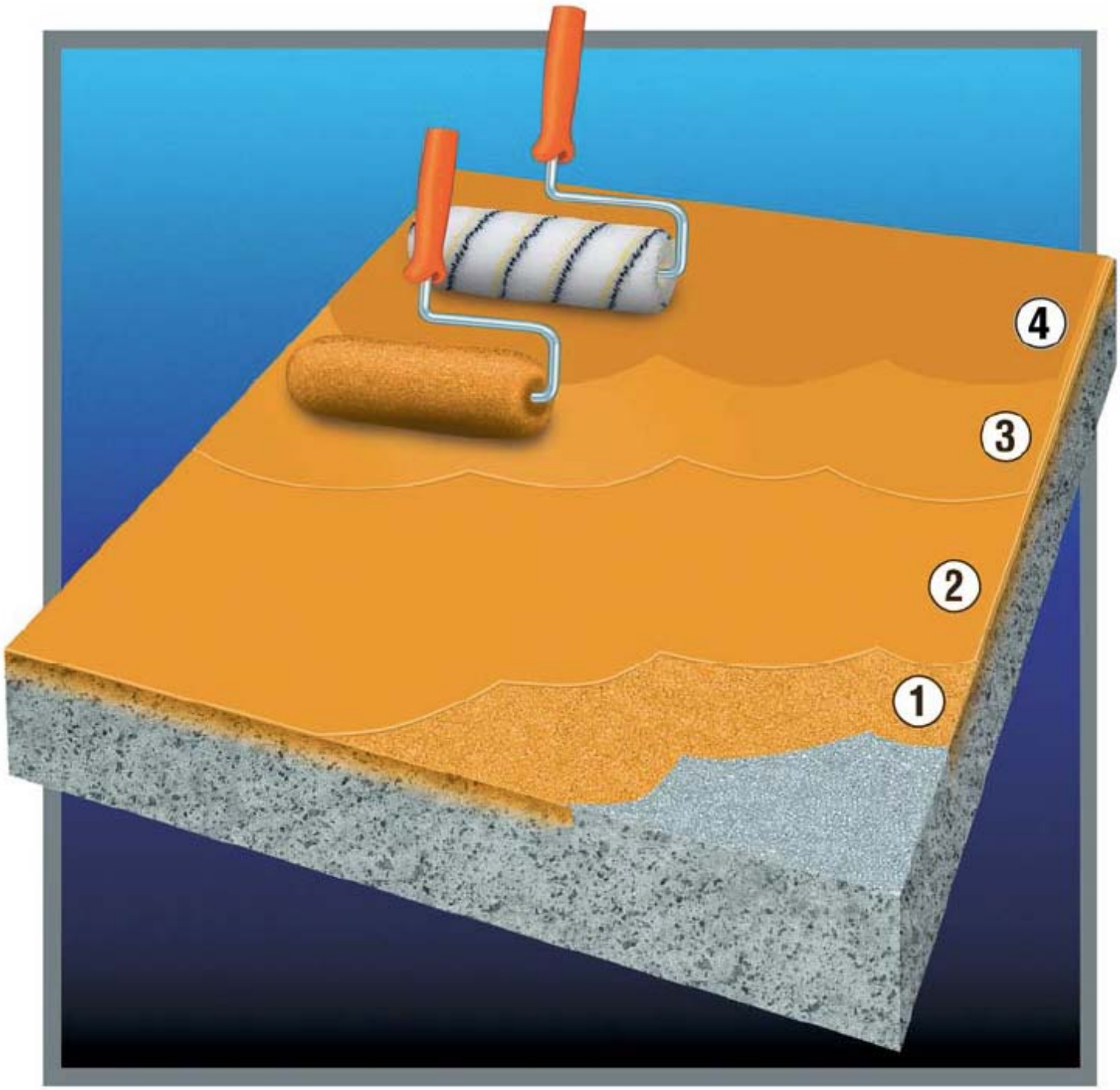
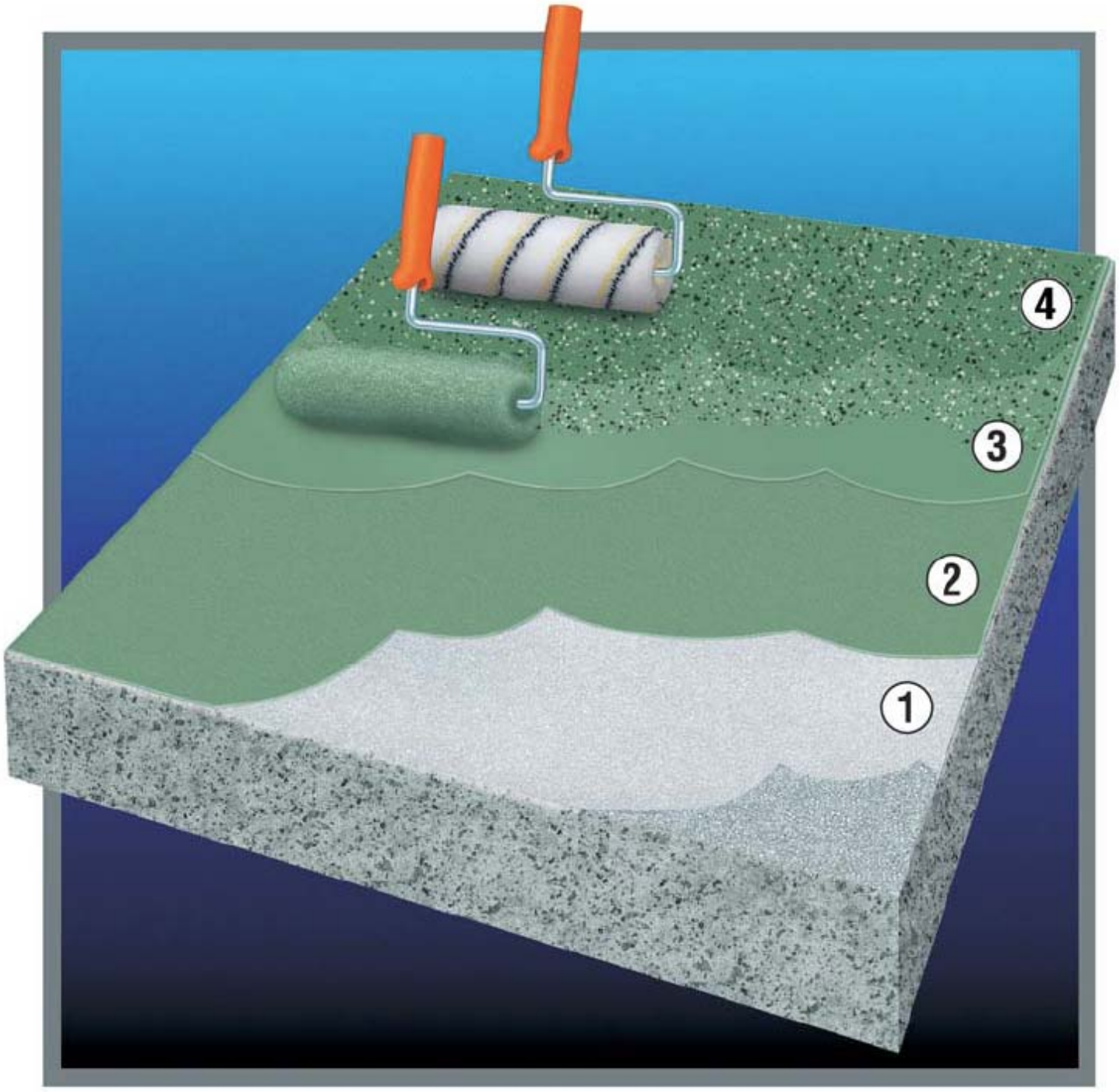
Figure 1
Standard build-up with colorless sealer on absorbent interior floor surfaces



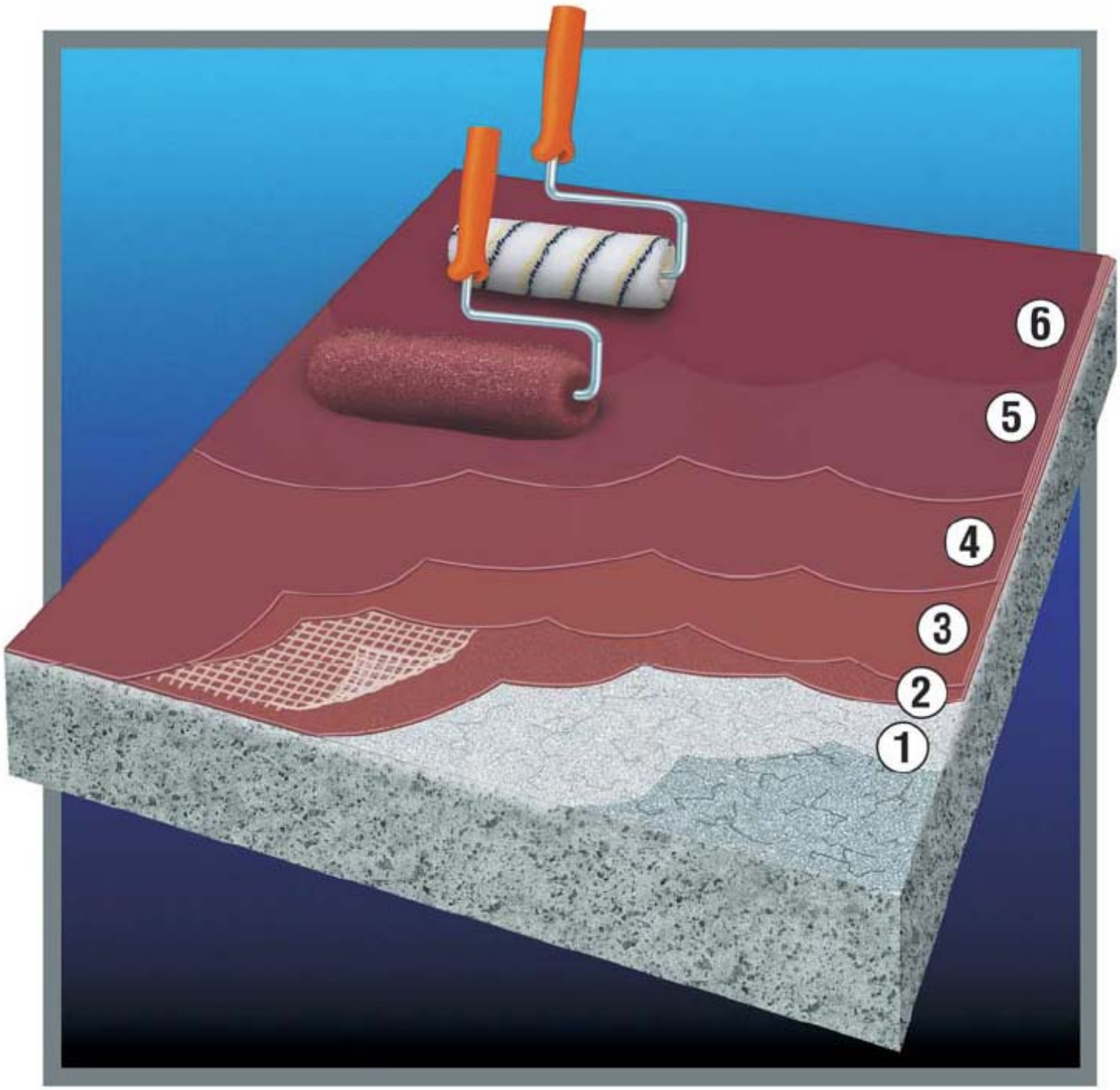
1 **Prime coat**
Floortec PU Floor Sealer ELF 847, diluted with water (approx. 20%)
2 **Intermediate coat**
Floortec PU Floor Sealer ELF 847, unthinned
3 **Topcoat**
Floortec PU Floor Sealer ELF 847, unthinned
4 **Sealer**
Floortec 2C PUR Matt Sealer 844 or Floortec 2C PUR Gloss Sealer 845

Figure 2
Anti-skid execution R 10 on untreated exterior and interior surfaces



1 **Prime coat**
2C Aqua Epoxy Primer 873
2 **Intermediate coat**
Floortec PU Floor Sealer ELF 847, unthinned
3 **Topcoat**
Floortec PU Floor Sealer ELF 847, unthinned, then scattered with Floortec Dekochips 843
4 **Sealer**
Floortec 2C PUR Sealer 844, with the addition of Floortec Safe Step 841

Figure 3
Crack-filling with colorless sealer on untreated exterior and interior floor surfaces



1 Prime coat
2C Aqua Epoxy Primer 873
2 + 3 Reinforcement
Elastic Fiber 1566, embedded in Floortec PU Floor Sealer ELF 847
4 + 5 Intermediate and topcoat
Floortec PU Floor Sealer ELF 847, unthinned
6 Sealer
Floortec 2C PUR Matt Sealer 844 or Floortec 2C PUR Gloss Sealer 845