



HADALAN® PUR Floor-E 13P

Polyurethane self-levelling coating, coloured, elastic



These pictograms apply to the **basic product**.
Deviations are possible depending on the area of application and processing.

PRODUCT INFORMATION

Description

HADALAN® PUR Floor-E 13P is a solvent-free 2-component polyurethane resin. Thanks to its elasticity and tough surface, it offers damping and crack-bridging properties and protection against mechanical and chemical stress. The diffusion-tight surface protects against the harmful penetration of aggressive liquids and cleaning agents.

Application

- for producing colored flow and textured coatings for medium loads in industrial and commercial areas
- on indoor cement- and bitumen-bound floor surfaces
- ideal for workrooms and areas with standing activities
- for producing non-slip coverings by scattering appropriate additives

Operational area

- multifunctional use as **primer** and **coating**
- Indoor floor areas
- Industrial and commercial space
- workrooms
- concrete, screed and mastic asphalt surfaces

Properties

- elastic
- tough-hard
- rapid strength development
- mechanically and chemically resilient
- static crack-bridging
- liquid-tight
- self-levelling
- solvent-free
- improved footfall sound insulation
- tested in accordance with DIN EN 425 (chair castor test)
- tested according to DVGW/BGR 181 (R9 – R11)



Technical Data

Available container sizes	10 kg/combination container
Component A	6.7 kg resin
Component B	3.3 kg hardener
Mixing ratio	7 : 3.5 parts by weight
Shade/color tones	colorless, stone gray approx. RAL 7030
Density, ready to use	approx. 1.07 kg/l
Abrasion loss (according to Taber)	0.025 g (roll CS 10, 1000 U, 1000 g)
Shore hardness (Shore-A)	approx. 44
Crack bridging capacity	0.5 mm
Temperature resistance	+110 °C
Processing temperature	+8°C to + 25°C
Processing time	approx. 25 minutes ¹⁾
Revisability	can be recoated and walked on after approx. 8 hours ¹⁾
Resilience	fully cured and loadable after approx. 7 days ¹⁾
Storage	frost-free and cool, 6 months
Consumption	as a flow coating approx. 0.60 kg/m ² PUR Floor-E 13P with 1.20 kg/m ² FGM003 57M per mm layer thickness

¹⁾ At +20 °C and 60 % relative humidity

SUBSTRATE

Properties/tests

- The substrate must be dry, load-bearing, clean, dust-free and free of adhesion-reducing residues, release agents, efflorescence and sintered coatings.
- The adhesive tensile strength of the substrate must be at least 1.5 N/mm².
- The compressive strength of the substrate should be at least 25 N/mm².
- The substrate moisture content for cementitious substrates must be < 4.0 CM%, anhydrite screeds: < 0.5 CM%.
- Bitumen-bound substrates (e.g. mastic asphalt) are difficult substrates due to their deformability under mechanical and thermal stress. These must be of ICH 10 to ICH 15 quality.

Preparation

- The substrate must be prepared in accordance with the BEB data sheets (e.g. by shot blasting, diamond grinding, milling or other suitable measures).
- Before applying the coating, the substrate must be prepared to seal the pores.
- Suitable system primers must be used for this purpose (e.g. HADALAN Pripor 12E).
- In the case of existing roughness depths, carry out scratch filling or roughness depth compensation.

AREAS OF APPLICATION AND PROCESSING



■ Applying

■ Processing as a flow coating:

1. The hardener component is completely added to the resin component. The components are mixed homogeneously using a slow-speed stirring tool (approx. 400 rpm) with a stirring paddle. The mixing time is at least 2 minutes. The material is then transferred to a clean mixing vessel, the filler mixture HADALAN FGM003 57M (white) is added and mixed again.
2. Spread HADALAN PUR Floor-E 13P quickly over the substrate with a suitable tool (hahne toothed strip special) in an even layer of 2.0 mm.
3. After approx. 10 minutes, deaerate the surface with a suitable tool (e.g. hahne spiked roller) in a crosswise motion by rolling slowly and without pressure.

■ Processing as a textured coating:

1. The hardener component is added completely to the resin component. The components are mixed homogeneously using a slow-speed stirring tool (approx. 400 rpm) with a stirring paddle. The mixing time is at least 2 minutes. The material is then transferred to a clean mixing vessel, the filler mixture HADALAN FGM003 57M (white) is added and mixed thoroughly. Now add the setting agent HADALAN TX 57DD and mix again.
2. Spread HADALAN PUR Floor-E 13P quickly over the substrate with a suitable tool (e.g. TBP S6) in an even layer of approx. 1.3 mm.
3. After approx. 10 minutes, texture the surface with a suitable tool (e.g. texture/pebble roller) by rolling slowly and without pressure. For larger areas, ensure that structuring is not started too late. Another person may be required here so that the texturing of the surface can begin while the flow coating is being applied.

NOTES

■ Cleaning

- Clean tools immediately after use with HADALAN EPV 38L.
- Hardened material can only be removed mechanically.

■ System products

- HADALAN® FGM003 57M
- HADALAN® Pripor 12E
- HADALAN® MBH 12E
- HADALAN® EPUi 12E

■ To be observed

- The product is moisture-reactive. The material must therefore be protected from moisture until it has completely hardened. The substrate to be coated must be dry.
- High temperatures accelerate, low temperatures delay the solidification and curing process.
- Observe the coating distances.
- The substrate temperature must be at least 3 °C above the dew point temperature during application and curing.
- Changes in color/yellowing are possible under UV and weathering influences and do not represent any impairment.
- Pour the material out of the container immediately after mixing.
- Only use materials from one batch.
- Color deviations on contiguous surfaces do not constitute a defect.
- With coating systems that can be applied by hand traces of application may remain visible. This applies in particular to grazing light or larger contiguous areas, create a sample area if necessary.

■ Ingredients

- Polyurethane resin
- functional fillers
- Pigments

■ Occupational safety / Recommendation

- Further information on safety during transportation, storage and handling can be found in the current safety data sheets.

■ Disposal

- The following applies to all systems: Only return empty containers to recycling partner Interseroh. Cured material residues can be disposed of in accordance with EWC code no. 08 01 11 (paint and varnish waste containing organic solvents or other hazardous substances).



HADALAN® Floor protection / Balcony protection



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■ **Producer**

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The statements are made based on extensive tests and practical experiences. They cannot be applied to every application case. Therefore, we recommend carrying out application trials if necessary. Subject to technical changes in the course of further development. Furthermore, our General Terms and Conditions of Business apply.