HADALAN® ESD-G 12E

ESD-primer

Characteristics

HADALAN® ESD-G 12E is a ready-to-use (slightly prefilled with a special mixture of fillers) solvent-free epoxy resin.
It is suitable for residual moisture of the substrate in cementitious systems < 6 % in anhydrite-bonded systems up to 0.5 % (measured according to the CM measuring method).

- Thixotropic setting
- Resistant to osmosis
- Good adhesion to substrates with increased residual moisture
- Good chemical resistance
- High mechanical strength
- Totally solid according to test procedures of Deutsche Bauchemie e.v.

Use

HADALAN® ESD-G 12E can be used to prime mineral, absorbent substrates for the **HADALAN® ESD** coating. By adding the filler combination, **HADALAN® FGM003 57M** can be used as a scratch coat.

Areas of application:

- Industrial and commercial surfaces
- Concrete and screed surfaces
- Areas subject to chemical stress
- Adhesive and pore-filling primer
- System primer for conductive systems

Specifications

Packaging	Tin bucket
Container	25 kg
Component A	19.7 kg
Component B	5.3 kg
Mixing ratio	3.72 : 1 PBW
Application temperature (air, substrate, product)	+15 °C to +25 °C
Processing time [1])	Approx. 20 minutes
Mixed density	Approx. 1.23 kg/l
Adhesive tensile strength	> 1.5 N/mm²
Walkable [1])	After 12 to 15 hours
Subsequent coat	Within 12 to 24 hours
Storage	Cool, frost-free and dry, 6 months

Quantity required

Primer	0.40 to 0.80 kg/m²
Scratch filling/roughness compensation in mixing ratio 1:1 PBW	
HADALAN® ESD-G 12E	1 kg/m²/mm layer thickness
HADALAN® FGM003 57M	1 kg/m²/mm layer thickness

[1]) At +20 °C and 60% relative air humidity.

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Preparation of the surface

The substrate must be firm, dry, clean, dust-free, absorbent, load-bearing and free of separating agents, corrosion-promoting components or other layers that interfere with the bond. In principle, the substrate must be suitable for the coating system. The surface tensile strength must not be less than 1.5 N/mm². The substrate moisture of cement substrates should not fall short of < 5.5 parts by weight, anhydrite screeds: < 0.5 CM%. The compressive strength of the substrate must be at least 25 N/mm². The substrate must be protected from rising and penetrating moisture. Prepare the floor surface through e.g. dust-free shot blasting, diamond grinding, milling or other suitable measures. The grain structure must be exposed and all separating substances and loose components must be consistently removed. As a rule, substrates into whose surface agents (e.g. wax) have been incorporated for smoothing must be removed by milling and subsequent shot-blasting. Check the compatibility with existing coatings; completely remove layers and coatings without load-bearing capacity. Screeds containing asphalt are difficult substrates due to their formability under mechanical and thermal load. For this reason, they can only be coated with special systems. Please contact our technical service. In the case of existing fixed tile coverings, the surface must be removed by diamond grinding or milling. Completely remove the glaze. All substrate preparations have to be carried out by suitable specialist firms. Expansion joints are to be incorporated into the surface covering; reworking is not permitted.

Application

Before processing, the material must always be heated to at least the ambient temperature (room and floor temperature) (at least +15°C.). Empty the B component container completely into the A component container. Then mix the mixture with an electric stirrer (approx. 3 - 4 min), repot and briefly stir again. After that, pour the primer mixture in portions onto the surface to be coated and distribute it evenly. The primer must be re-rolled with a short pile EP roller (Microfibre Mixing Roller Premium 1043473). Apply the primer in a film-forming and non-porous manner. In principle, a pore sealant must be provided to prevent the formation of bubbles in the subsequent layers. In individual cases, a test area must be applied here. This also applies to highly absorbent and/or porous substrates. If necessary, prime the substrate in several layers. If vertical surfaces are to be coated, add approx. 1-3 % **HADALAN® SM 57DD**. In the event of any existing roughness depths, perform scratch filling or roughness depth compensation. Mix the EP resin as described above and repot. Then add the filler in a mixing ratio of 1:1 PBW and mix intensively. Process with a trowel or suitable scraper.

Attention

- Do not sand excessively when overcoated with levelling coatings.
- Do not sand when reworked with conductive layers.
- In case of barrier layer, sanding is not allowed.

Rework must be carried out within 24 hours after installation

System products

HADALAN® ESD-LS 12E
HADALAN® ESD-LDS 12E
HADALAN® FGM003 57M
HADALAN® SM 57DD

HADALAN® ESD-G 12E

Important notes

The substrate must be protected from rear and pressing moisture. The characteristic data are approximate values that we have determined and are not intended to guarantee any specific properties. Liability claims can therefore not be derived from the product data sheet. EP resins are generally not colour-stable in the long term under UV and weathering influences and/or tend to yellow. The technical data sheet does not exempt the user from carrying out their own tests with regard to applicability and suitability.
Abrasive loads can lead to scratching of the surface. All information can vary or deviate depending on the object, installation and substrate conditions as well as the temperature.
Chemical reactions are delayed at low temperatures. This prolongs the time needed for reworking and walking on the surface. The higher viscosity of the products also increases material consumption. The chemical reactions shorten at higher temperatures. Always protect the material from water exposure during processing. Furthermore, the material must be protected against direct water exposure for approx. 24 hours (at +20°C) after application. During this time, the exposure to water (e.g. dew, condensation water) can lead to a white discolouration (carbamate formation) on the surface or the surface becomes sticky at these points. This circumstance can impair the adhesion to the subsequent coatings. The substrate temperature must be at least +3 °C above the dew point temperature. Traces of processing may remain visible on manually applied coating systems. This applies in particular to glancing light or larger contiguous areas; if necessary, produce a trial surface.

Safety provisions/recommendations

Information regarding the safety during transport, storage and handling are included in the updated safety data sheets.

Disposal

The local waste removal regulations must be observed.

Manufacturer

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Version as of 9.2021