

TECHNICAL INFORMATION
H145G SKID SURFACE PLASTIC



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Art.-No.: 53H145G7016 H145G skid surface plastic anthracite grey
Art.-No.: 53H145G7042 H145G skid surface plastic traffic grey A
Art.-No.: 53H145G.... (RAL) H145G skid surface plastic colored

Version: 2023-07-13

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Important Information:

Please consider our General Terms and Conditions and the general notes of the Technical Information Sheet! No liability is accepted for any errors! The information is provided to our best knowledge and experience. This information is, however, no warranty for any properties of the material. We provide this information without obligation, also regarding the rights of third parties. The user has to make sure that the material is appropriate for the respective application.

1 Main characteristics / Fields of application

H145G skid surface plastic...

- Belongs to the group of solvent-free, pluri-component, reactive systems
- consists of two components (basic component and hardener) which – through chemical interaction – form a duro-plastic compound and cannot be thermally plastified anymore
- durable cold plastic surface for sliding test facilities for passenger cars and lorries on wet surfaces or on slippery surfaces (aquaplaning test)
- the elastic formulation reduces crack formation risk
- low dirt absorption properties because of special recipe and its smooth surface
- application of 2-C UV-clear varnish make surface much smoother and diminish dirt absorption

2 Technical Data

Color	Art.-No.: 53H145G7016 anthracite grey Art.-No.: 53H145G7042 traffic grey other colors upon request
Density	approx. 1.65 kg/l +/- 0.06
Potlife	5-15 minutes
Solvent content	Solvent-free, don't add solvent
Solvent for cleaning	Special cleaner for marking machines Art.-No.: 3086
Storage stability	6 months (unmixed), in sealed original packaging; protect from frost and direct sun light
Overrollability / curing time	Depends on climate conditions (surface, air, material, temperatures, humidity, wind), hardener quantity. In general markings overrollability must be checked before exposing to traffic impact.
Standard packaging	H145G skid surface plastic: tin foil container with 10/15/25 kg filling weight Other tin container / filling weights on request Hardener powder: PE-bags, filling weight corresponding to mixing ratio and container content Attention: all hardener types are organic peroxides – they must be separately packaged, transported and stored from the cold plastic in special container (special cartons and boxes)
Identification	The regulations and instructions concerning appropriate transport, handling, storage, first aid & measures, toxicology and ecology are stated in our material safety data sheet! The instructions stated on the product label and in the MSDS must be followed.
VOC (accord. to ASTM 2369 – 1)	34.4 +/- 0.5 (g/l) (Test report no. 190014714)
Processing temperature	min. +5°C
Surface temperature	+5°C to 45°C
Relative humidity	max. 75% (dew point temperature has to be regarded)
Layer thickness	1-3 mm
Theoretical consumption	approx. 1.65-4.95 kg/m ² (1.0-3.0 l/m ²) Actual consumption depends on surface structure and layer thickness necessary for getting smooth surface.

3 Mixing ratio / Application techniques / Hardener

Product	Article-No.	Technique	Hardener type
H145G Skid surface plastic traffic grey A Summer formulation	53H145G7042	Open mixing system Preferred option: manual application with special screed box, for more information contact us please	Hardener powder
H145G Skid surface plastic anthracite grey Summer formulation	53H145G7016		
Mixing ratio: reactive component / base component		Hardener powder	= 100 : 1
(H145G Skid surface plastic)		(BPO)	

Between October and April H145G skid surface plastic is delivered in winter formulation.

4 Processing instructions

4.1 Preparation of material and application techniques

Prior to application H145G skid surface plastic must be stirred in its original container until of even consistency. Use only the quantity needed for the next marking job. The hardener powder is then added into the base component at the indicated mixing ratio and again stirred until of even consistency.

Cold plastic products (reactive systems) are solvent-free and must be applied without adding solvent (Optimizing of application properties see 4.2.).

Screed box, tools and auxiliaries must be cleaned before the product cures, by using Special cleaner for marking machines (Art.-No.: 3086).

The uniform material spread of material over the entire application surface must be observed.

Theoretical consumption of material is listed in table "Theoretical consumption of material and drop-on material" on our website in kg/m² as well as in kg/km of line to be marked depending on typical line width.

4.2 Optimizing of application properties of cold plastic

4.2.1. General information

Application properties and reactivity of the material depend upon the temperature of cold plastic, air and surface. Proper storage conditions improve application conditions.

4.2.2. Viscosity

For optimizing application properties, respectively reduction of viscosity, max. 1% Condenser for cold plastic (Art.-No.: 3044) can be added when temperatures of material, air and surface are low.

Attention: Limit the material mixed with condenser of the needed quantity, otherwise viscosity or settle properties may changing.

5 Surfaces / pretreatment

5.1 General information

The surface must be dry, clean, free from grease, oil & loose gravel and other contaminations. The surface and any existing old markings must be checked for their carrying capacity and compatibility with material to be applied. In case of doubt, application and adhesion tests are required. Ideally old markings should be removed with appropriate mechanical procedures.

5.2 Concrete and cement-bound surfaces

The pavement that prevents good bonding, especially on new concrete, as fine mortar layer, concrete slurries, concrete after-treatments as setting retarders, paraffins, impregnations on silicate basis etc. must be appropriately removed (e.g. with high pressure waterjet, fine millcuts or similar). We recommend conducting test applications in case of doubt communicate concerns in writing.

Before applying H145G skid surface plastic on concrete or cement-bound surfaces area must be pretreated with primers:

- a) by spray technique (paint spray machine) with 2-C EP-primer (Art.-No.: 8609000) or

- b) manual (roller) with 2-C primer B71 for concrete
(Art.-No.: 8010)

It is essential to get sufficient and uniform primer coverage in order to obtain optimum bonding of H145G Skid surface plastic and the concrete. Primer consumption may vary depending on the concrete's porosity. The moisture of concrete must not exceed 4 % when applying 2-C primer B71 for concrete. Primers based on epoxide resins are suitable for residual moisture surfaces.

5.3 Bituminous surfaces

Any loose components such as chippings must be removed. Special agents used in new pavement asphalt (e.g. fluxoils, adherents) are detrimental to good bonding of markings and can cause discoloration. Since these components are hardly removable mechanically, the surface should be exposed to traffic for 4 – 6 weeks. If required before application of H145G skid surface plastic a thin primer layer (max. 200 µm) K815 for bicycle lanes should be applied to avoid bleeding.

6 Application techniques

H145G skid surface plastic is applicable by squeegee trowel or better by special screed box devices.

According to our experiences we recommend screed box processing. That screed box types are usable for H145G skid surface plastic application only. It is important to get a smooth H145G surface without height offsets or edges. H145G-surfaces are large scale coatings therefore formation of bubbles likely occur although primer must be used on concrete surfaces. For this reason, we recommend using a spiked roller immediately after H145G – application (H145G ventilation).

Levelling properties are important for getting a smooth surface, Condenser for cold plastic (Art.-No.: 3044) can be added when temperatures of material, air and surface are low.

H145G skid surface plastic results in SRT values vary from 30 to 40. Application of 2-C UV-clear varnish reduces SRT to 10-20. After some time of traffic impact, the 2-C UV-clear varnish layer is to be renewed.