

Pulastic Multicoat Clear (E)

Transparent 2-part PU silky-gloss coat for use in systems of the PULASTIC Solid Line range

Product Description	Pulastic Multicoat Clear (E) is a transparent two part water-based, very low VOC, polyurethane, silky-gloss seal coat.
Uses	Transparent, silky-gloss seal coat for PULASTIC Solid Line Systems
Advantages	<ul style="list-style-type: none">• Waterbased• Very low odour• Good UV resistance, non-yellowing• Easy to clean

Tests / Approvals / Standards	Fire classification acc. to EN 13501-1 Report No. 2008-B-3883/10, MPA Dresden
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Product Data	
Appearance / Colour	Pulastic Multicoat Clear E is silky-gloss after final curing.
Packing	Part A: 6.0 kg Part B: 1.5 kg Part A+B: 7.5 kg ready to mix units

Storage & Shelf Life	Twelve (12) months from date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C.
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Technical Data	
Chemical Base	PUR
Density	Part A: ~ 1.05 kg/l Part B: ~ 1.13 kg/l Mixed Resin: ~ 1.07 kg/l (diluted with 5 % Water) All Density values at +23°C.

Resistance	
Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.

System Information	
System Structure	Sealing of systems of Pulastic Solid Line range: Base coat: PULASTIC Multicoat (E) or 1x PULASTIC Multicoat (E) with Pulastic Color chips < 3 mm (optional) Silky-matt seal coat: 1 x Pulastic Multicoat Clear (E)

Application Detail	
Consumption / Dosage	

Coating System	Product	Consumption
Sealing of smooth surfaces	Pulastic Multicoat Clear (E)	c.a 0.13 kg/m ² /layer

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc. Lower consumption can cause roller marks, gloss differences and irregular surface structure, higher consumption result in water retention.



Substrate Quality	The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. Pull-off strength must be not less than 1.5 N/mm ² . If in doubt, apply a test area first.
Substrate Preparation	All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

Application Conditions / Limitations

Substrate Temperature	+10°C min. / +30°C max.
Ambient Temperature	+10°C min. / +30°C max.
Relative Air Humidity	75% max. During curing the humidity should not exceed 75 % max. Adequate fresh air ventilation must be provided to remove the excess moisture from the curing product.
Dew Point	Beware of condensation! The substrate and uncured floor must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the floor finish.

Application Instructions

Mixing	Part A : part B = 80: 20 (by weight)
Mixing Time	Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 3 minutes until a uniform mix has been achieved. To achieve smoother surface 5 % water can be added. After adding the water mix continuously for 1 minute. Wait one minute and then mix it up again for one minute. The adding of water must be the same in every mix, if not it could slightly influence the matness and the texture. Check the mixing result and the absence of lumps or agglomerates on a mixing blade. To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to minimise air entrainment.
Mixing Tools	Multicoat Clear (E) must be thoroughly mixed using an electric mixer or equivalent.



Application Method / tools

Prior to application confirm relative air humidity and dew point!

During installation and curing of the Pulastic Multicoat Clear (E) it is of major importance to determine exactly the degree of humidity of the working area. Too humid conditions during installation and curing may result in colour deviation, inconsistent appearance of the floor ("cloudy effect") and reduced strength of the coating layer.

The appearances mentioned above can be avoided if the dew point of the room is determined exactly, before starting the coating application. The dew point determines at what temperature, condensation will take place on the floor surface. Condensation of humidity must be avoided at all times for two reasons:

1) At a too high humidity in the room the water in the coating will have great difficulties evaporating, or will not evaporate at all. The speed of evaporation of water in the Pulastic Multicoat Clear (E) is directly related to difference between the dew point and the floor temperature. The closer the floor temperature is to the dew point, the slower the coating will dry. Even if the floor temperature is equal to the dew point, the coating will stop drying completely.

2) Curing of a 2 component, waterborne PU system exists of 2 processes. First the evaporating of the water. Secondly curing of the A with the B component. Important to note that the B component also reacts with water. If evaporation takes too long, a relatively too big part of the B component will react with the water of the coating and reaction between A and B component may be insufficient, resulting in the deviations mentioned above such as cloudy effects in the floor and/or lower coating abrasion resistance.

Basically the following working conditions must be respected*:

- Temperature of material and working area: 10°C-30°C.
 - Temperature of sub floor: minimal 4°C above the Dew-point.
- Air humidity: max 75%.

If ventilation possibilities are only very limited, the conditions are even more critical and must be respected as follows*:

- Temperature of material and working area: 10°- 30°C.
- Temperature of sub floor: minimal 5°C above the Dew-point.
- Air humidity: max 70%.

***During Application and Curing!**



Cleaning of Tools

Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be removed mechanically.

Potlife

Temperature	Time
+10°C	~ 50 minutes
+20°C	~ 30 minutes
+30°C	~ 20 minutes

Caution: End of potlife is not noticeable.

Waiting Time / Overcoating

Before applying Sikafloor-304 W on Sikafloor-300 N allow:

Substrate temperature	Minimum	Maximum
+10°C	30 hours	4 days
+20°C	24 hours	3 days
+30°C	16 hours	2 days

Before applying Sikafloor-304 W on Sikafloor-261/-263 SL allow:

Substrate temperature	Minimum	Maximum
+10°C	45 hours	4 days
+20°C	36 hours	3 days
+30°C	24 hours	2 days

Notes on Application / Limitations

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Freshly applied Sikafloor-304 W must be protected from damp, condensation and water for at least 7 days (+20°C).

Unevenness of substrates as well as inclusions of dirt cannot be covered by thin sealers coats. Therefore substrate and adjacent areas must be cleaned thoroughly prior to application.

Tools

Electric drill, mixing-blade, brushes and short pilled rollers 10 up to 70 cm for surface area – amount depending on size of floor). Roller frames and telescopic extension handles, tape and spatula. Plastic sheeting for placement of wet rollers. Recommended supplier of tools:

TECHNO-Werkzeuge A.E; Vertriebs GmbH

Dieselstr. 44; 42579 Heiligenhaus, Phone: 02056 / 9846-0

Info@Techno-Vertrieb.de; Homepage: <http://www.techno-vertrieb.de>

PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, www.polyplan.com.

J. Wagner GmbH;

Homepage : [http://www.wagnergroup.](http://www.wagnergroup.de/portal/company_contacts_de_wag,15181,360.html)

[de/portal/company_contacts_de_wag,15181,360.html](http://www.wagnergroup.de/portal/company_contacts_de_wag,15181,360.html)

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

Curing Details

Applied Product ready for use

Temperature	Foot traffic	Light traffic	Full cure
+10°C	~ 30 hours	~ 48 hours	~ 6 days
+20°C	~ 16 hours	~ 24 hours	~ 4 days
+30°C	~ 12 hours	~ 18 hours	~ 3 days

Note: Times are approximate and will be affected by changing ambient conditions.

Cleaning / Maintenance

Methods

To maintain the appearance of the floor after application, Sikafloor-304 W must have all spillages removed immediately and be regularly cleaned.

Please refer to the "General maintenance tips and recommended cleaning procedures" for the Sika ComfortFloor Systems.



Value Base

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Local Restrictions

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



Sika (NZ) Ltd
PO Box 19192
Avondale
Auckland
New Zealand

Phone: 0800 SIKA NZ 0800 745 269
Fax: 0800 SIKA FAX 0800 745 232
Email: info@nz.sika.com www.sika.co.nz

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