EUROSTEP
Posadzki i nawierzchnie syntetyczne

TECHNICAL DATA SHEET

Reference: TDSPLEX1680

Edition no.: 1.0

PLEX 1680

DESCRIPTION:

Plex 1680 is a flexible UV-resistant, reactive resin with low viscosity based on polymethyl methacrylate. The resin has a blue-violet color. After polymerization, the blue-violet film cures into a transparent film.

The flexible Plex 1680 is the standard sealer for Plex 1520 flexible binder systems and are used together is one system. The Plex 1680 is also possible on the Plex 1510 if desired.

It is developed to function as the top layer or sealcoat for the MMA TF system and combines good properties in terms of wear resistance and chemical resistance.

APPLICATION:

Mix the Plex 1680 briefly before weighing it out. Add the recommended amount of catalyst and mix thoroughly. Please note: When using a partial amount, measure the correct quantities. Refer to the table below for guidance.

Kilo of Plex 1680	1% Catalyst	2% Catalyst	4% Catalyst
1 kg	10 g	20 g	40 g
5 kg	50 g	100 g	200 g
10 kg	100 g	200 g	400 g
20 kg	200 g	400 g	800 g

Mix the Plex 1680 with the added catalyst for 1-2 minutes preferably with a powerful mixer with a Collomix WK 90 paddle at low speed, 300 – 400 RPM.

Apply using a rubber squeegee, making sure to cover the complete floor area twice by using a left to right and back to left application motion.
Then roll the Plex 1680 with a nylon roller (preferably as wide as possible). For best results work form wall to wall in long continuous lanes. For the edges of the floor use a 10cm nylon roller.

Ensure sufficient ventilation during installation of the floor. In enclosed spaces, mechanical ventilation with at least 7 air changes per hour is mandatory.

CONSUMPTION:

Floor system	Product	Consumption
Top layer (1st layer)	**Plex 1680**	~ 0,250 – 0,600 kg/m^2
Top layer (2nd layer)	**Plex 1680**	~ 0,250 – 0,600 kg/m^2

The degree of anti-slip depends on the finish

Slip resistance	R-Value	Application	# layers	Consumption per layer
High	R12	Squeegee	1	250 g/m^2
Medium	R11	Trowel	1	600 g/m^2
Low	R10	2 x Squeegee	2	400 g/m^2

PROPORTIES:

- Good chemical and mechanical resistance
- Good flexibility
- Very short curing time
- Excellent adhesion to the substrate
- Good resistance to low temperatures
- Very good wear resistance
- Good impact and shock resistance

TECHNICAL PARAMETERS:

Viscosity[1] [mPa·s]	175-225
Density[2] [g/cm^3]	0,97-0,99
Shore Hardness[3]	> D60
Bond strenght [N/mm^2]	> 1,5 (concrete fracture)
Tensile strenght[4] [N/mm^2]	> 9
Elongation at break[4] [%]	> 170

1) IKA lo-vi, SP-3, 30 RPM, 20°C
2) ISO 2811-1, + 23°C/50% R.H
3) DIN 53505, 14 days / +23°C / 50% R.H
4) ISO 527/+ 23 °C/50% R.H

PACKAGING:

Can packing: 20 kg
Metal drum: 180 kg

SHELF LIFE:

Up to 12 months after production date in original, sealed, non-opened and undamaged packaging, stored dry between +10 °C and +30 °C.

CATALYST QUANTITY:

Temp. [°C]	Catalyst [%]	Processing time [min]	Cure time [min]
0 – 5	4	20	60
5 – 10	3	25	55
10 – 20	2	17	35
20 – 30	1,5	14	30

SUBSTRATE PREPARATION:

The substrate must be sound and sufficiently pressure-resistant (minimum 25 N/mm²), with a minimum adhesive strength of 1,5 N/mm².

The surface must be clean and dry and free of dirt, oil, grease and other contamination. Before applying the top layer, remove excess quartz from the floor and vacuum the floor.

When adding too much catalyst, yellow spots can form because the top layer then builds up too high a temperature.

APPLICATION CONDITIONS:

Substrate temperature: Minimum 0°C, maximum +35 °C

Ambient temperature: Minimum 0°C, maximum +35 °C

Suitabel for use on moist substrates up to 5% residual moisture
To be tested by carbide measurement.

Relative air humidity: Maximum 95% R.H.

Dew point: Beware of condensation!

The material and substrate should be at least 3°C higher than the dew point.

REMARKS:

When applying the material, ensure the correct personal protective equipment is worn.

Prior to use, Plex 1680 must be carefully stirred to achieve a uniform distribution of agents contained in the product.

Mixed materials should be processed immediately..

LEGAL NOTICE:

This information, and in particular the recommendations related to the application and end use of Eurostep products, is provided in good faith based on our current knowledge and experience of the products. It is valid for products that are correctly stored, treated and applied under normal conditions in accordance with Eurostep's recommendations.

In practice, differences in materials, substrates and actual on-site conditions are such that no warranty in respect of merchantability or of suitability 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 products must test the product's suitability for the intended application and purpose. Eurostep 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 technical data sheet for the product concerned, copies of which will be supplied on request.

EUROSTEP
Posadzki i nawierzchnie syntetyczne

HEALTH AND SAFETY:

For information and advice on the safe handling, storage and disposal of chemical products, the user should consult the most recent product safety data sheet consult, regarding the physical, ecological, toxicological and other safety-related data.

VALUE BASE:

All technical data stated in this technical data sheet is based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

For more information about the Eurostep products or for technical advice, please contact:

Eurostep Poland Sp. z o.o.
Tymiankowa 37/39
95-054 Ksawerów
Poland

Tel.: +48 609 222 050

www.Eurostep.pl