

Plex 1690

Packaging:

Can packaging: 20 kg

Barrels: 180 kg

Properties:

- Good chemical and mechanical resistance
- Very short curing time
- Excellent adhesion to the substrate
- Good resistance to low temperatures
- Very good wear resistance
- Density: 0,96 - 0,97 g/cm³
- Viscosity 215 - 320 mPa.s (spndl 2 - 30 rpm)
- Shore hardness > D80
- Tensile strength > 19 N/mm²
(Sample thickness 3.0mm)
- Elongation at Breakage > 45%
(Sample thickness 3.0mm)
- Bond strength > 1.5 N/mm²
(Concrete fracture)

Description:

Plex 1690 is a polymethyl methacrylate top layer for the PMMA TFD system.

Catalyst quantity:

Temp (C°)	Catalyst (%)	Processing time (min)	Curing (Min)
0 - 10	2	Ca. 14	35-40
10 - 15	1.5	Ca. 14	30-35
15 - 20	1	Ca. 12	30-35
20 - 30	0,8	Ca. 11	20-30

Consumption:

Floorsystem	Product	Consumption
Toplayer (1ste layer)	Plex 1690	~ 0,250 – 0,400 kg/m ²
Toplayer (2de layer)	Plex 1690	~ 0,250 – 0,400 kg/m ²

Substrate:

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.

Processing conditions:

Surface temperature: Minimum 10°C, maximum +35°C

Ambient temperature: Minimum 10°C, maximum +35°C

Moisture content substrate: < 4% moisture
To be tested via a carbide measurement.

Relative humidity: Maximum 80% R.H.

Dew point: Beware of condensation!

The recommended temperature of the material before application is 20° C.

The material should not be applied if the temperature is lower or equal to the dew point.

Application:

Mix the Plex 1690 briefly before weighing. Add the recommended amount of catalyst and mix thoroughly. Note: weigh in the correct quantities when partially consuming. See the table below.

<u>Number of kilos</u>	<u>1 % Catalyst</u>	<u>1.5 % Catalyst</u>	<u>2 % Catalyst</u>
1 kilo	10 gram	15 gram	20 gram
5 kilo	50 gram	75 gram	100 gram
10 kilo	100 gram	150 gram	200 gram
20 kilo	200 gram	300 gram	400 gram

Mix the Plex 1690 with the added catalyst for 1-2 minutes preferably with a powerful mixer with a Collomix WK 90 mixing rod at low speed, 300 – 400 RPM.

Apply with a wiper and re-roll with a fur roller.

The degree of anti-slip depends on the finish.

Heavy antislip	R12	Squeegee	250 g/m ²
Antislip	R11	Trowel	600 g/m ²
Light antislip	R10	2x Squeegee	780 g/m ²

When applying the primer, ensure sufficient ventilation!

Comments:

When applying the material, wear the appropriate personal protective equipment

Protection from rain and water is necessary during processing and curing.

Misjudgment and treatment of cracks can lead to recurrent cracking.

Mixed materials must be processed immediately.

If heating is needed, do not use gas, oil paraffin or other fossil fuel burners. These produce large amounts of CO₂ and water vapor, which adversely affect the finish. For heating, use only electrically driven hot air ventilation systems.

Health and safety information:

For information and advice on the safe handling, storage and disposal of chemical products, the user should consult the latest product safety data sheet, covering physical, environmental, toxicological and other safety-related data.

Legal notice:

The information, and in particular the recommendations regarding the application and end use of Eurostep products, is provided in good faith based on Eurostep's current knowledge and experience with products that have been properly stored, handled and applied under normal conditions.

In practice, the differences in materials, underlays and actual conditions on site may be such that no guarantee can be derived from this information and advice with regard to merchantability or suitability for a particular purpose, nor any liability arising from any legal relationship, based on this information, or from any written recommendations or any other advice given.

Eurostep reserves the right to change the properties of products.

The property rights of third parties must be respected.

All orders are accepted under the present terms and conditions of sale and delivery. Users should always consult the most recent edition of the product safety data sheet for the product concerned. Copies will be provided upon request.