

## PLEX 1690

### DESCRIPTION:

Plex 1690 is a standard polymethyl methacrylate hard sealcoat used for the MMA TF system. Primarily used inside on top of flakes of quartz.

### 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.

Number of kilos	1% Catalyst	1,5% Catalyst	2% Catalyst
1 kg	10 g	15 g	20 g
5 kg	50 g	75 g	100 g
10 kg	100 g	150 g	200 g
20 kg	200 g	300 g	400 g

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 <sup>2</sup>
Antislip	R11	Trowel	600 g/m <sup>2</sup>
Light antislip	R10	2 x Squeegee	780 g/m <sup>2</sup>

When applying the primer, ensure sufficient ventilation!

### CONSUMPTION:

Floor system	Product	Consumption
Top layer (1 <sup>st</sup> layer)	<b>Plex 1690</b>	~0,650 – 0,950 kg/m <sup>2</sup>
Top layer (2 <sup>nd</sup> layer)	<b>Plex 1690</b>	~0,650 – 0,950 kg/m <sup>2</sup>

### CATALYST QUANTITY:

Temp. [°C]	Catalyst [%]	Processing time [min]	Cure time [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

### SUBSTRATE PREPARATION:

The substrate must be sound and sufficiently pressure-resistant (minimum 25 N/mm<sup>2</sup>), with a minimum adhesive strength of 1,5 N/mm<sup>2</sup>.

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.

### PROPERTIES:

Good chemical and mechanical resistance

Very short curing time

Excellent adhesion to the substrate

Good resistance to low temperatures

Very good wear resistance

### TECHNICAL PARAMETERS:

Viscosity<sup>1</sup> [mPa·s] 170-180

Density<sup>2</sup> [g/cm<sup>3</sup>] 0,97-0,99

Shore Hardness<sup>3</sup> > D80

Bond strength > 1,5  
[N/mm<sup>2</sup>] (concrete fracture)

Tensile strength > 19  
[N/mm<sup>2</sup>] (sample thickness  
3 mm)

Elongation at break > 45  
[%] (sample thickness  
3 mm)

1 IKA Io-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

### PACKAGING:

Can packing: 20 kg

Barrels: 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.

## APPLICATION CONDITIONS:

Substrate 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 air 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.**

## REMARKS:

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 CO<sub>2</sub> and water vapor, which adversely affect the finish. For heating, use only electrically driven hot air ventilation systems.

## LEGAL NOTICE:

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## 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.

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