

# PLEX 1680

## DISCRIPTION:

Plex 1680 is a elasticized transparent polymethyl methacrylate sealcoat used for outside applications for the MMA TF system. Due to the excellent UV resistance this is the perfect solution for balconies, terraces and other outside applications.

## CATALYST AMOUNT:

Temp. [°C]	Catalyst [%]	Processing time [min]	Curing [min]
0-10	2	~14	35-40
10-15	1,5	~14	30-35
15-20	1	~12	30-35
20-30	0,8	~11	20-30

## CONSUMPTION:

Floor system	Product	Consumption
Top layer (1 <sup>st</sup> layer)	<b>Topcoat Plex 1680</b>	~0,650 – 0,950 kg/m <sup>2</sup>

## SUBSTRATE PREPRATAION:

The substrate must be sound and sufficiently pressure-resistant (minimum 25 N/mm<sup>2</sup>), with a minimum bond strength of 1.5 N/mm<sup>2</sup>.

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

Adding too much catalyst may cause yellow spots because the topcoat will then build up too high a temperature.

## APPLICATION CONDITIONS:

Substate temperature:	Minimum 10°C, maximum +35 °C
Ambient temperature:	Minimum 10°C, maximum +35 °C
Surface moisture content:	< 4% moisture To be tested with a carbide measurement.
Relative humidity:	Maximum 80% R.H.
Dauwpunt:	Beware of condensation!

The recommended temperature of the material before application is 20° C.  
The material must not be applied if the temperature is lower or equal to the dew point.

## APPLICATION:

Briefly mix up the Plex 1680 Colored before weighing. Add the recommended amount of catalyst and mix thoroughly. Note: In case of partial consumption, weigh in the correct quantities. See table below.

Number of kilograms	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 1680 with the added catalyst 1-2 minutes preferably with a high-powered mixer with a Collomix WK 90 mixing rod at low speed, 300 - 400 RPM.

Apply with a squeegee and re-roll with a coat roller.

Ensure adequate ventilation during application of the primer!

## FEATURES:

- Good impact and shock resistance
- Very short curing time
- Easy to process
- Good resistance to low temperatures

## TECHNICAL PROPERTIES:

Density (g/cm <sup>3</sup> )	0,96 – 0,97
Viscosity (mPa·s)	200 – 350
Shore Hardness	> D60
Tensile strenght (N/mm <sup>2</sup> )	> 20 (sample thickness 3,0 mm)
Elongation at break (%)	> 46 (sample thickness 3,0 mm)
Bond strenght (N/mm <sup>2</sup> )	> 1,5 (concrete facture)

## PACKAGE:

Tin packaging: 10, 20 kg  
Barrels: 180 kg

## SHELF LIFE:

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

## NOTES:

Wear appropriate personal protective equipment when applying the material. Protection from rain and water is necessary during processing and curing. Improper assessment and treatment of cracks may lead to recurrent cracking. Mixed materials should be processed immediately.

If heating is required, do not use gas, oil paraffin or other fossil fuel burners. These produce large amounts of CO<sub>2</sub> and water vapour, which adversely affect the finish. Use only electrically powered hot-air ventilation systems for heating.

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## 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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