

PLEX 1510

DESCRIPTION:

Plex 1510 is a polymethylmethacrylate casting resin with high tensile strength that, together with colored quartz, forms the wearing course for the MMA TF system.

APPLICATION:

Mix the Plex 1510 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 1510	2% Catalyst	4% Catalyst	6% Catalyst
1 kg	20 g	40 g	60 g
5 kg	100 g	200 g	300 g
10 kg	200 g	400 g	600 g
20 kg	400 g	800 g	1200 g

Mix the Plex 1510 with the catalyst for approximately 30 seconds. Then add the Plex Filler in the correct ratio, 2 parts Plex Filler to 1 part Plex 1510.

Mix for about 1 minutes, preferably using a powerful mixer equipped with a Collomix DLX 120 or 152 mixing paddle at a low speed, around 300 – 400 RPM.

Apply the Plex 1510 using serrated spreader blade 4676-000-S2 to achieve the correct layer thickness. Keep the spreader or notched leveler upright while applying the construction layer and regularly check if the teeth of the serrated spreader blade are not worn out!

Allow the product to flow before starting the broadcasting process. Always pour the entire contents of the bucket at once to prevent a rapid reaction of the material in the bucket.

Broadcast the construction layer with QMI quartz 0,4-0,8 until no wet spots are visible.

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
Self-leveling broadcast	Plex 1510 + Plex Filler	~ 2,6 kg/m ²
	QMI quartz 0,4 – 0,8	~ 4 kg/m ²
Trowel	Plex 1510 + coloured quartz	8 kg + 25 kg
		8 kg/m ² (4mm)

CATALYST QUANTITY:

Temp. [°C]	Catalyst [%]	Processing time [min]	Cure time [min]
0 – 5	4	20	60
5 – 10	3	25	55

PROPERTIES:

Good chemical and mechanical resistance

Fast curing

Excellent adhesion to the substrate

Applicable at low temperatures

Very good wear resistance

TECHNICAL PARAMETERS:

Viscosity ¹ [mPa·s]	160-170
Density ² [g/cm ³]	0,97-0,99
Shore Hardness ³	> D80
Bond strenght [N/mm ²]	> 1,5 (concrete fracture)
Tensile strenght ⁴ [N/mm ²]	> 25
Elongation at break ⁴ [%]	> 22

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

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.

10 - 20	2	17	35
20 - 30	1,5	14	30

SUBSTRATE PREPARATION:

The surface must be fully primed with Plex 1120 or Plex 1110.
You can repair holes and cavities with Plex 1510 + Plex 192 + quartz.

Due to the chemical reaction and rapid heat buildup, it's important to add coarser quartz in deeper holes to prevent the product temperature from rising too high. Excessive product temperatures can cause the mortar to detach from the substrate. resin must always come to the surface of the mortar; otherwise, it may not cure properly. Additionally, the mixture of Plex 1510 + Plex 192 + quartz must be adequately saturated.

For holes up to 2 cm

Plex 1510	6,3 kg
Mortar 0,4 - 0,8	25 kg

For holes up to 5 cm

Plex 1510	6,3 kg
Mortar 0,4 - 0,8	25 kg
Gravel 2-3	5 kg

For holes up to 10 cm

Plex 1510	6,3 kg
Mortar 0,4 - 0,8	25 kg
Gravel 2-3	10 kg

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 1510 must be carefully stirred to achieve a uniform distribution of agents contained in the product.

Mixed materials should be processed immediately..

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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