EUROSTEP
Posadzki i nawierzchnie syntetyczne

TECHNICAL DATA SHEET

Reference: TDSPLEX1510

Edition no.: 1.0

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.

During the installation of the floor, ensure adequate ventilation!

CONSUMPTION:

Floor system	Product	Consumption
Wearing course	**Plex 1510 + Plex Filler** QMI quartz 0,4 – 0,8	~ 2,6 kg/m^2 ~ 4 kg/m^2
Trowel	Plex 1510 + coloured quartz	8 kg + 25 kg 8 kg/m2 (4mm)

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 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. The 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.

PROPORTIES:

- 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 [N/mm^2]	> 23
Elongation at break [%]	> 22

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

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.

For holes up to 2 cm

Plex 1510	6,3 kg
Mortel 0,4 – 0,8	25 kg

For holes up to 5 cm

Plex 1510	6,3 kg
Mortel 0,4 – 0,8	25 kg
Grind 2-3	5 kg

For holes up to 10 cm

Plex 1510	6,3 kg
Mortel 0,4 – 0,8	25 kg
Grind 2-3	10 kg

APPLICATION CONDITIONS:

Substrate temperature:	Minimum 0°C, maximum +35 °C
Ambient temperature:	Minimum 0°C, maximum +35 °C
Relative air humidity:	Maximum 85% 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.

Protection against rain and water is necessary during the processing and curing stages. Ensure adequate ventilation during application.

Incorrect assessment and treatment of cracks can result in recurring crack formation.

Mixed materials should be processed immediately.

If heating is required, do not use gas, oil-paraffin, or other fossil fuel burners as they produce large amounts of CO_2 and water vapor, which can adversely affect the finish. Use only electrically powered hot air ventilation systems.

LEGAL NOTICE:

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