EUROSTEP
Posadzki i nawierzchnie syntetyczne

TECHNICAL DATA SHEET

Reference: TDSPLEX1520

Version: 1.0

PLEX 1520

DISCRIPTION:

Plex 1520 is a Polymethylmethacrylate binder that together with coloured quartz forms the wear layer for the PMMA TFD system.
Plex 1520 is more elastic compared to Plex 1510 and the best solution for outside applications like car parks, roofs.

- If applied as a self-leveling system mix 10 kg of resin together with 20 kg of Plex filler.
- If applied as a trowel system mix around 8 kg of resin together with 25 kg of colored quartz.

CATALYST AMOUNT:

Temp. [°C]	Catalyst [%]	Potlife [min]	Curing [min]
0-5	4	~20	60
5-10	3	~25	55
10-20	2	~17	35
20-30	1,5	~14	30

CONSUMPTION:

Floor system	Product	Consumption
Wear layer (selfleveling)	Plex 1520 + Plex Filler	10kg + 20 kg 2,6 kg/m2 (2mm)
Trowel	Plex 1520 + coloured quartz	8 kg + 25 kg 8 kg/m2 (4mm)

SUBSTRATE:

The substrate must be fully primed with Plex 1120.
Repair holes and cavities with Plex 1520 + Plex 192 + quartz.
Due to the chemical reaction and rapid heat build-up, it is important to add more coarse quartz at deeper holes to prevent the product temperature from rising too high. If the product temperature is too high, the mortar may loosen. The resin must come to the surface of the mortar at all times otherwise it cannot cure.
The mixture Plex 1520 + Plex 192 + quartz must be wet.

For holes up to 2 cm

Plex 1520	6,3 kg
Mortar 0,4 – 0,8	25 kg

For holes up to 5 cm

Plex 1520	6,3 kg
Mortar 0,4 – 0,8	25 kg
Gravel 2-3	5 kg

For holes up to 10 cm

Plex 1520	6,3 kg
Mortar 0,4 – 0,8	25 kg
Gravel 2-3	10 kg

APPLICATION CONDITIONS:

Substate temperature:	Minimum 0°C, maximum +35 °C
Ambient temperature:	Minimum 0°C, maxiumum +35 °C
Surface moisture content:	< 4% moisture To be tested with a carbide measurement.
Relative humidity:	Maximum 80% R.H.
Dauwpunt:	Beware of condensation!

FEATURES:

Good chemical and mechanical resistance
Very short curing time
Excellent adhesion to substrate
Good resistance to low temperatures
Very good abrasion resistance

TECHNICAL PROPORTIES:

Density (g/cm^3)	0,95 – 0,97
Viscosity (mPa·s)	60 - 100
Shore Hardness	> D65
Tensile strenght (N/mm^2)	> 19 (sample thickness 2 mm)
Elongation at break (%)	> 65 (sample thickness 2 mm
Bond strenght (N/mm^2)	> 1,5 (concrete facture)

PACKAGE:

Tin packaging: 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 +0 °C and +30 °C.

APPLICATION:

Briefly mix up the Plex 1520 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	*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 1520 with the added catalyst for 1 minute preferably using a high-powered mixer with a Collomix WK 90 mixing rod at low speed, 300 - 400 RPM.
Apply the Plex 1520 with tooth strip 4676-000-S2 so that you apply the correct layer thickness. When applying the construction layer, keep the tooth strip holder upright and regularly check that the teeth of the tooth strip have not worn off!
Allow the product to flow before you start spreading. Always empty the entire contents of the bucket at once to avoid a rapid reaction of material in the bucket.
Sprinkle the construction layer with QMI quartz 0.4-0.8 until you no longer see any wet spots.
Ensure adequate ventilation during application!

NOTES:

Wear appropriate personal protective equipment when applying the material
The most important thing when priming is that the primer does not completely soak into the substrate. The paraffin must be given a chance to come to the surface. If the primer does soak into the substrate and does not cure properly, apply another layer of primer.
Do not prime uneven or dirty substrates.
Protection against rain and water is necessary during application and curing.
Improper assessment and treatment of cracks may lead to recurrent cracking.
Mixed materials should be processed immediately.

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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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