

# PLEX 1520

## DISCRIPTION:

Plex 1520 is a Polymethylmethacrylate binder that together with coloured quartz forms the wearing course for the MMA TF system. Plex 1520 is more elastic compared to Plex 1510 and the best solution for outside applications like car parks and 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.

## APPLICATION:

Mix the Plex 1520 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.

Amount in kg	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 catalyst for approximately 30 seconds. Then add the Plex Filler in the correct ratio, 2 parts Plex Filler to 1 part Plex 1520.

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 1520 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	<b>Plex 1520 + Plex Filler</b>	~ 2,6 kg/m <sup>2</sup>
	QMI (Coloured) quartz 0,4 - 0,8	~ 4 kg/m <sup>2</sup>
Trowel	Plex 1520 + coloured quartz	8 kg + 25 kg quartz
		8 kg/m <sup>2</sup> (4mm)

## CATALYST QUANTITY:

Temp. [°C]	Catalyst [%]	Processing time [min]	Cure time [min]
0 - 5	4	20	60

## FEATURES:

Good chemical and mechanical resistance

Very short curing time

Excellent adhesion to substrate

Good resistance to low temperatures

Good flexibility

Very good abrasion resistance

## TECHNICAL PARAMETERS:

Viscosity <sup>1</sup> [mPa·s]	175-225
Density <sup>2</sup> [g/cm <sup>3</sup> ]	0,95 - 1,00
Shore Hardness <sup>3</sup>	> D60
Bond strenght [N/mm <sup>2</sup> ]	> 1,5 (concrete fracture)
Tensile strenght <sup>4</sup> [N/mm <sup>2</sup> ]	> 9
Elongation at break <sup>4</sup> [%]	> 170

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

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 undamage packaging, stored dry between +0 °C and +30 °C.

5 - 10	3	25	55
10 - 20	2	17	35
20 - 30	1,5	14	30

### 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:

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 1520 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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