

# PLEX 1110

## DESCRIPTION:

Plex 1110 is a elasticized primer based on polymethyl methacrylate used for wood, ceramic tiles and asphalt.

## APPLICATION:

Mix the Plex 1110 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.

Number of kilos	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 1110 with the added catalyst for 1-2 minutes, preferably using a powerful mixer equipped with a Collomix WK 90 mixing paddle at a low speed, between 300 – 400 RPM.

It is important to prime with serrated spreader blade 4700-280 B2 to ensure the correct layer thickness. Applying the primer with a paint roller or trowel may pose the risk of not applying it thick enough, which could prevent proper curing.

Note: When used in the MMA TF system, sprinkle the primer with Mortar 0.8-1.4 with a consumption of 600 g/m<sup>2</sup>. Sprinkling is crucial for building the correct layer thickness of the entire floor system.

**Ensure sufficient ventilation during application of the primer!**

## CONSUMPTION:

Floor system	Product	Consumption
Primer	Plex 1110	~ 0,4 – 0,6 kg/m <sup>2</sup>
Broadcast	Mortel 0,8 – 1,4	~ 600 g/m <sup>2</sup>

## CATALYST QUANTITY:

Temp. [°C]	Catalyst [%]	Processing time [min]	Cure time [min]
0 – 10	6	11	30
10 – 20	4	8	30
20 – 30	2	8	30

## SUBSTRATE PREPARATION:

The substrate must be sound and sufficiently pressure-resistant (minimum 25 N/mm<sup>2</sup>), with a minimum adhesive strength of 1,5 N/mm<sup>2</sup>.

The surface must be clean and dry and free of dirt, oil, grease and other contamination.

Concrete substrates need to be shot blasted or diamond grinded to achieve a clean and open-textured surface.

Remove weak concrete and loose cementitious substrates and repair surface damage such as holes and cavities.

Completely remove all dust and friable material from all surfaces, preferably with broom and/or industrial vacuum cleaner, before applying the product.

## PROPERTIES:

Good impact-resistant and shock-proof

Very short curing time

Easy to process

Good resistance to low temperatures

Thixotropic

## TECHNICAL PARAMETERS:

Viscosity<sup>1</sup> [mPa·s] 100-110

Density<sup>2</sup> [g/cm<sup>3</sup>] 0,97-0,99

Shore Hardness<sup>3</sup> > D80

Bond strenght > 1,5

[N/mm<sup>2</sup>] (concrete fracture)

Tensile strenght > 20

[N/mm<sup>2</sup>] (sample thickness

1,3 mm)

Elongation at break > 30

[%] (sample thickness

1,3 mm)

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

## 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.

## APPLICATION CONDITIONS:

Substrate temperature:	Minimum 0°C, maximum +30 °C
Ambient temperature:	Minimum 0°C, maximum +30 °C
Substrate moisture content: To be tested by carbide measurement.	<6% moisture
Relative air humidity:	Maximum 80% R.H.
Dew point:	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.

## REMARKS:

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.

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.

## 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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