

PLEX 1120

DESCRIPTION:

Plex 1120 is a primer based on Polymethyl methacrylate and applied to new and old concrete with a relative humidity up to 97 %. For adhesion on ceramic tiles bondpromotor needs to be added. Bondpromotor is prepacked in bottles of 100 gram, which is later added to 5kg of plex 1120.

Please note!

The bondpromotor needs to be mixed on the jobsite, if the material is mixed a day later it will not cure.

5 kg plex 1120 + 0,1 kg bondpromotor

APPLICATION:

Mix the Plex 1120 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 1120 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/m². Sprinkling is crucial for building the correct layer thickness of the entire floor system.

When applying the primer, ensure adequate ventilation!

CONSUMPTION:

Floor system	Product	Consumption
Primer	Plex 1120	~ 0,4 – 0,6 kg/m ²
Broadcasted	Mortel 0,8 – 1,4	~ 0,6 kg/m ²

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

PROPERTIES:

Good impact-resistant and shock-proof

Fast curing

Easy to apply

Applicable at low temperatures

Great for damp concrete

Very good wear resistance

TECHNICAL PARAMETERS:

Viscosity ¹ [mPa·s]	140-150
Density ² [g/cm ³]	0,99-1,05
Shore Hardness ³	> D80
Bond strenght [N/mm ²]	> 1,5 (concrete fracture)

1 IKA I6-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.

SUBSTRATE PREPARATION:

The substrate must be sound and sufficiently pressure-resistant (minimum 25 N/mm²), with a minimum adhesive strength of 1,5 N/mm².

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.

APPLICATION CONDITIONS:

Substrate temperature: Minimum 0°C, maximum +35 °C

Ambient temperature: Minimum 0°C, maximum +35 °C

Suitabel for use on moist substrates op to 6% residual moisture

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.

The key aspect during priming is to prevent the primer from fully penetrating the substrate. Allow the paraffin to come to the surface. If the primer penetrates the substrate and doesn't cure properly, apply another layer of primer.

Do not prime uneven or dirty surfaces.

Protection against rain and water is necessary during application and curing.

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 CO₂ and water vapor, which can adversely affect the finish. Use only electrically powered hot air ventilation systems.

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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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