

PLEX 1120

DESCRIPTION:

Plex 1120 is a primer based on Polymethylmethacrylate and can be applied to new and old concrete with a relative humidity up to 97 %.

Please note that for ceramic tiles a bondpromotor needs to be added to ensure optimal adhesion. 100 gram of bondpromotor to 5 kg of Plex 1120 and double amount of Plex 192 catalyst is required.

APPLICATION:

Plex 1120 must be thoroughly mixed to ensure an even distribution of the paraffin in the product. before weighing. Add the bondpromotor if necessary and add the recommended amount of catalyst and mix thoroughly.

Note: For partial use, weigh out the correct amounts. Refer to the table below.

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 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, slightly broadcast the primer with Mortar 0.8-1.4 with a consumption of 600 g/m². A light broadcast is crucial for building the correct layer thickness of the entire floor system.

Ensure sufficient ventilation during application of the primer. In enclosed spaces, mechanical ventilation with at least 7 air changes per hour is mandatory.

CONSUMPTION:

Floor system	Product	Consumption
Primer	Plex 1120	~ 0,300 – 0,500 kg/m ²
Only for MMA TF	Mortel 0,8 – 1,4	~ 600 g/m ²

PROPERTIES:

Good impact-resistant and shock-proof
Fast curing, even at low temperatures
Easy to apply
Applicable at low temperatures
Good adhesion on damp substrates

TECHNICAL PARAMETERS:

Viscosity¹ [mPa·s] 150-200
 Density² [g/cm³] 1,00 - 1,10
 Shore Hardness³ > D80
 Tensile strenght² [N/mm²] >10
 Elongation at break² [%] < 1
 Bond strenght > 1,5
 [N/mm²] (concrete fracture)

- 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
- 4) ISO 527/+ 23 °C/50% R.H

PACKAGING:

Tin buckets : 20 kg
 Barrels: 180 kg

FORM:

Plex 1120: Liquid, transparent
 Plex 192 : Powder, white

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.

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/mm²), with a minimum adhesive strength of 1,5 N/mm².

The surface must be clean and dry and free of dirt, lime, 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 all cracks and damages in the floor before installation. 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 up to 6% residual moisture

To be tested by carbide measurement.

Relative air humidity: Maximum 97% 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 1120 must be carefully stirred to achieve a uniform distribution of agents contained in the product.

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.

LEGAL NOTES:

This information, and in particular the recommendations related to the application and end use of Eurostep products, is provided in good faith based on our current knowledge and experience of the products. It is valid for products that are correctly stored, treated and applied under normal conditions in accordance with Eurostep's recommendations.

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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