

# PLEX 1120

## DESCRIPTION:

Plex 1120 is a primer based on Polymethylmethacrylate and can be applied to new and old concrete with a moisture content up to 6%.

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.

When applying Plex 1120 with a bondpromotor, the bondpromotor needs to be mixed on the jobsite. If the bondpromotor is mixed a day prior to application the primer will not cure.

## 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, 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. In enclosed spaces, mechanical ventilation with at least 7 air changes per hour is mandatory.

## CONSUMPTION:

Floor system	Product	Consumption
Primer	Plex 1120	~ 0,3 – 0,5 kg/m <sup>2</sup>
Only for MMA TF	Mortel 0,8 – 1,4	~ 0,6 kg/m <sup>2</sup>

## CATALYST QUANTITY:

Temp. [°C]	Catalyst [%] + Bondpromotor	Processing time [min]	Cure time [min]
0 – 10	12	11	30

## 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:

Viscosity <sup>1</sup> [mPa·s]	150-200
Density <sup>2</sup> [g/cm <sup>3</sup> ]	1,00 - 1,10
Shore Hardness <sup>3</sup>	> D80
Tensile strenght <sup>2</sup> [N/mm <sup>2</sup> ]	> 10
Elongation at break <sup>2</sup> [%]	< 1
Bond strenght [N/mm <sup>2</sup> ]	> 1,5 (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:

Can packing: 20 kg  
 Metal drum: 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.

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, 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

#### Suitable 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. Recoat the primer within 4 to 6 hours to ensure intercoat adhesion.

**If the bondpromotor is mixed a day prior to application the primer will not cure.**

### 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.

In practice, differences in materials, substrates and actual on-site conditions are such that no warranty in respect of merchantability or of suitability for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the products must test the product's suitability for the intended application and purpose. Eurostep reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the technical data sheet for the product concerned, copies of which will be supplied on request.

### 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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