

ISOPLAST PH 61

Technical Data Sheet

Material

ISOPLAST PH 61 is a ready-to-use plastic insulating material with ceramic fiber, which has a high thermal insulating behavior and a high refractoriness. It can be used in direct contact to melted metal (till 1700 °C)

For further information visit www.deltaphoenix.it

General informations

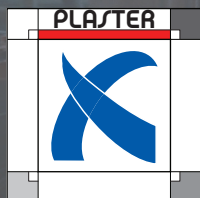
Main component:	Ceramic fiber
Melting temperature:	1810 °C
Highest usage temperature:	1700 °C
Chemical analysis after heating at 150 °C:	Al ₂ O ₃ +TiO ₂ : 73-76 % SiO ₂ : 23-26 % Na ₂ O+K ₂ O : 1,0-2,0 %
Density after setting:	1850 [kg/m ³]
Density after heating at 1000 °C:	1100-1200 [kg/m ³]
Thermal conductivity:	400 °C : 0,11 [W/(m • K)] 1000 °C : 0,23 [W/(m • K)] 1350 °C : 0,29 [W/(m • K)]
Reversible expansion at 1000 °C:	0,6 %
Expansion (+) or shrinkage (-) after heating at:	150 °C : 0,00 [%] 1000 °C : -0,1 [%] 1500 °C : -1,5 [%]
Compressive strength after heating at:	150 °C : 1,27 [MPa] 1000 °C : 2,45 [MPa] 1500 °C : 4,70 [MPa]
Application:	by hand with slow ramming
Drying:	see drying path described above

Fields of application

- Protective layer and retrofitting of casting ladles of pig-iron, steel, ferro-ally and non-ferrous materials
- Protective layer and retrofitting of channels for cupola furnace /receivers
- Retrofitting of burner cones



ISOPLAST PH 61 is an official brand of Delta Phoenix srl
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ISOPLAST PH 61

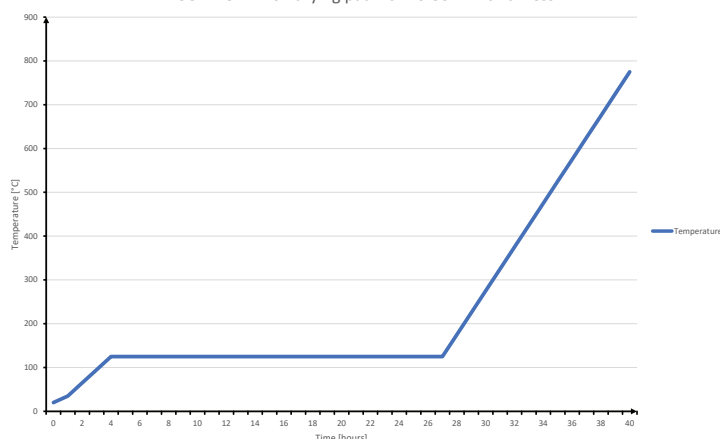
Drying path

N.B. :

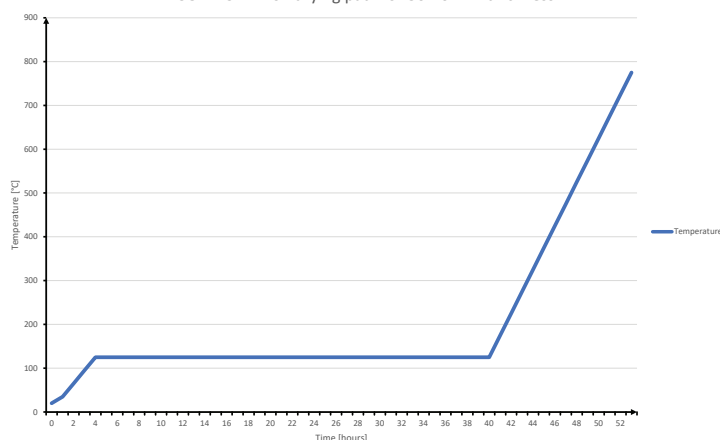
After cooling the material to environmental temperature, it's necessary to close holes and little cracks on the surface using one of the following methods:

- Painting with **ISOPLAST PH 61** mixed with the 30% of water
- Painting or spraying **TIKOBOND 27** with a thickness of 2-3 mm
- Painting or spraying **TIKOBOND W 3** with a thickness of 2-3 mm

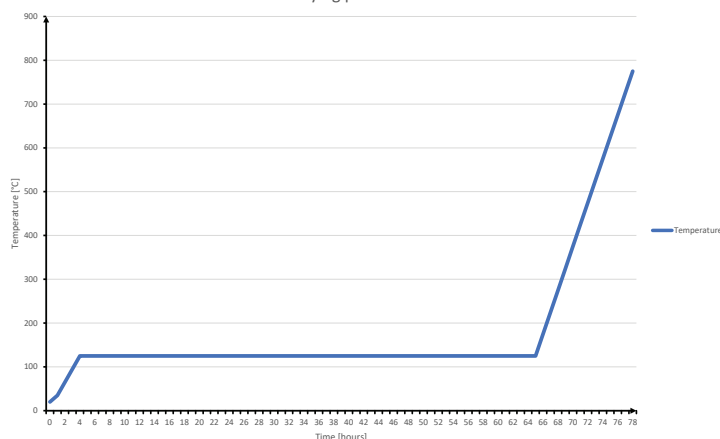
ISOPLAST PH 61 drying path for 20-30 mm thickness

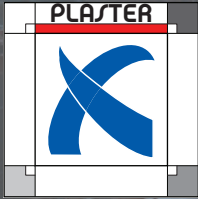


ISOPLAST PH 61 drying path for 30-40 mm thickness



ISOPLAST PH 61 drying path for 40-50 mm thickness





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Application

Main technical characteristics

ISOPLAST PH 61 is a thermal insulating ready-to-use plastic material with the following main technical characteristics:

- high thermal insulation
- easy workability and plasticity

Storage

ISOPLAST PH 61 package: 30 kg or 10 kg plastic bags inside plastic barrels.

To preserve best conditions, it's necessary to store material in fresh, haired, dry warehouse, lifted from floor and far from walls.

Storage temperature: 5 °C - 30 °C

If all the information above are confirmed, storage time is 12 months

Essential tools

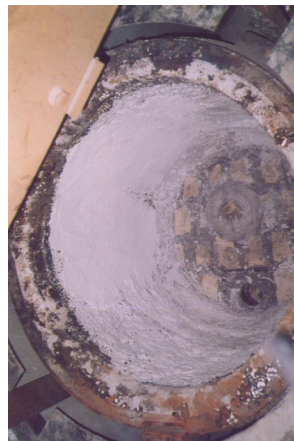
ISOPLAST PH 61 is a ready-to-use plastic material which can be applied by hand (wearing protective gloves) or by trowel with the warning to wet it to let the material detach itself from the tool

Preparation of the support

1. Clean surfaces (bricks, concrete, carpentry,...)where material is needed. No dust, slug, metals and any other unstable element is allowed.
2. Wet surfaces before application using **STUCH PH 10**. If this thing is not possible, wet surfaces using **ISOPLAST PH 61** pre-mixed with 20-30% of water.



Pic 1: **ISOPLAST PH 61** application by hand



Pic 2: **ISOPLAST PH 61** first layer



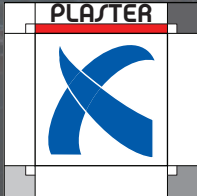
Pic 1: **ISOPLAST PH 61** application completed



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Implementation

ISOPLAST PH 61 is a ready-to-use plastic material; no mixing or water adding is necessary.

1. Apply **ISOPLAST PH 61** on wet surfaces as-it-is by hand and/or by trowel, keeping attention to homogenize it with itself and pressing it on the surface.
2. Once application is ended, smooth the surface using a trowel, keeping attention to use the same smoothing direction.

N.B. : material sticks to tools. keep close a barrel of water to clean tools to easy-detach material from them.

3. Once smoothing is ended, if the thickness is higher then 20 mm, it is necessary to create holes of 2-5 mm of diameter every 30-40 mm trough the whole thickness of material to easy drying it.

It is possible to start drying material immediately after the implementation



Pic 4: **ISOPLAST PH 61** application by trowel