

# RAYSTON INSULATE PLUS



## Water based acrylic coating with thermal insulating properties

### DESCRIPTION AND PROPERTIES

Due to its extremely low thermal conductivity, it helps to keep surfaces at low temperature. Due to its composition, it behaves as an insulating coating with multiple properties:

<b>Thermal insulation</b>	<ol style="list-style-type: none"><li>1. Contains dry fibrous materials, which give rise to many non-conductive cells and empty spaces</li><li>2. Due to having air hollows at an extremely low pressure, there is a very low thermal transmission coefficient</li><li>3. Keeps walls dry since they have a higher insulation coefficient</li><li>4. Does not absorb radiation heat inside, maintaining room temperature</li></ol>
Acoustic insulation	The same chemical composition that gives it anti-thermal properties, gives also acoustic insulation properties, improving soundproofing when applied with a rough texture.
Anticondensation effect	Formulated with micro-particles with the capacity of absorbing the formation of drops and condensation, releasing the water retained in steam, which balances with the ambient steam pressure.
Clean decorating	Due to the thickness of the layers, reduces imperfection and irregularity defects through an elastic finish that does not crack, leaving surfaces uniform, even with supports with high plaster deficiencies. Due to its chemical characteristics, it is resistant to mold.
Porous ceramic mineral particles with natural and synthetic fibres, with a totally elastic bond that is resistant to aging.	

### LIQUID PAINT TECHNICAL INFORMATION

Type	Unsaponifiable co-polymers
Number of components	One
Specific weight	1.10 Kg/L
Volatile organic content (VOC)	2 g/L. 2010 Normative 30 g/l
Solids by volume	69%
Thermal conductivity	0.194 W/m·K (600 microns on mineral substrate) (UNE-EN 12664: 2002)
Inflammation point	Not flammable
Solvent type...	Water

### DRY PAINT TECHNICAL INFORMATION

Colour	White
Appearance	Matte
Finish	Smooth or textured depending on application
Recommended thickness	500 microns minimum

### TECHNICAL APPLICATION SPECIFICATIONS

Cleaning solvent	Water		
Application methods	<u>Brush</u>	<u>Roller</u>	<u>Airless</u>
% Solvent	5	5	5
Recommended thickness	500 Microns	500 Microns	500 Microns
Theoretical yield	3 m <sup>2</sup> / Kilo	3 m <sup>2</sup> / Kilo	3 m <sup>2</sup> / Kilo
Air pressure			120 - 140 Kilos / cn <sup>2</sup>
Nozzle opening			0,015 - 0,018
Compresión ratio			30:01:00
Recommended layers	3	3	1 - 2
Usage methods	Open the container by shaking its contents at low speed via mechanical agitation (400-600 rpm) or gently mixing it well from the bottom to the top. Due to its thixotropic features, no sedimentation occurs.		
Applications conditions			
Supports	Clean and dry		
Environment			
Temperature	+ 5°C - + 45°C		
Relative humidity	0% - 85%		



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## SUPPORTS: CONDITIONS & TREATMENTS

<b>Surface type</b>	Plaster, concrete, iron, metals, etc ... using the preparation that is suitable for each material.
<b>Compatibility with other layers:</b>	
<b>Previous layers</b>	Any type of strongly adhesive paint.
<b>Subsequent layers</b>	
<b>Anti-condensation</b>	Not required for interior Effectiveness can be prolonged for exterior using finishes like IMPERMAX AQUA
<b>Anti-thermal</b>	IMPERTRANS ECO, IMPERMAX A, depending support and application thickness. Consult with our Commercial Technical Service.
<b>Surface preparation:</b>	
<b>New</b>	Clean supports, without poorly fastened or pulverised remains.
<b>Painted</b>	Wash to remove general dirtiness and any oiliness. For glossy paints, sand the surface slightly.
	For situations not included in this technical sheet, consult our Technical Sales Service

## DRYING TIMES

<b>Conditions:</b>			
<b>Ambient temperature</b> .....	+5°C - +40°C		
<b>Relative humidity</b> .....	0% - 85%		
<b>.....Dry to Touch</b>	<b>Total drying</b>	<b>Repainting interval</b>	
..... 2 hours	8 hours	<b>Minimum</b>	<b>Maximum</b>
.....		16 hours	unlimited

## STORAGE AND CONTAINER

Supply method	Plastic tins with 22,5 kg.
Storage	Original containers sealed at temperatures between + 5 °C and + 40 °C.
Expiration date	1 year from the manufacturing date

## MORE INFORMATION

Quality management system certified according to EN ISO 9001 (quality management system). The information contained in this Technical Data Sheet, as well as our advice, both written and verbal or provided through testing, are based on our experience and do not constitute any product warranty for the installer, which should be regarded as simple information. We recommend that you thoroughly study all the information provided before proceeding with the use or application of any of our products, and we strongly recommend conducting "on-site" tests to determine their suitability for a specific project. Our recommendations do not exempt installers from the obligation to thoroughly study the correct application method for these systems before use, as well as to carry out as many preliminary tests as possible in case of doubt. The application, use and processing of our products are beyond our control and therefore are the sole responsibility of the installer. Consequently, the installer will be solely responsible for any damage derived from the partial or total observation of our indications and, in general, from the inappropriate use or application of these materials.

**This technical data sheet supersedes previous versions.**

This information is based on our practical experience and laboratory tests. Due to the great diversity of materials used in construction on the market and the different forms of application that are beyond our control, we recall the need to carry out practical tests and sufficient controls in each case to guarantee the suitability of the product in each specific application.

