



## TECHNICAL DATA SHEET

### 3.2 WATER-BASED

#### ► Acquatex PU (Matt)

High quality polyurethane enamel

2086 / Version 6 / 04-03-2025



## DESCRIPTION

Mono-component water-based polyurethane enamel with very high performance. Respond all the requirements established in the "GREEN BUILDING", offering the highest possible score for BREEAM and / or LEED certifications.

## PROPERTIES

- Pleasant to the touch
- Excellent levelling of characteristics similar to classical synthetic products.
- Hard and highly resistant to abrasion and rubbing.
- Resistant to the damaging effects of the outdoors.
- Good adhesion on difficult surfaces.
- Does not yellow over time, not even in dark conditions.
- Resistance to household cleaning products.
- Does not contain organic solvents.
- Low odour.
- Interior and exterior application.

## USES

Advisable for lacquering wooden doors and windows. - Protection of a large variety of surfaces (duly primed) such as wood, plaster and iron, galvanised, aluminium, PVC, stainless steel.

## TECHNICAL DATA

<b>Appearance</b>	Silky Matt.
<b>Colour</b>	White and colours from the Sistema tintométrico Esencia charts.
<b>Density at 20°C (Kg/L)</b>	1.28 ± 0.05
<b>Content in solids % volume</b>	38
<b>Fire Resistance classification (EN13501-1)</b>	A2-s1-d0
<b>Yield</b>	8 - 12 m <sup>2</sup> /l (35 - 50 microns)
<b>Touch dry (hours)</b>	1 - 2
<b>Second coat (hours)</b>	5 - 6
<b>Total drying (days)</b>	15 - 20
<b>Thinner</b>	Water.
<b>% brush or roller dilution</b>	0 - 15
<b>% spray gun dilution</b>	10 - 20
<b>Cleaning of utensils and stains</b>	With water before drying.
<b>Volatile Organic Compounds (COV).</b>	Maximum product content 8,6 g/l

## HOW TO APPLY

- Stir the product until totally smooth.
- The surfaces to be painted must be clean, dry and free of dust, grease, saltpetre, etc.
- If the surface is already painted, ensure the previous paint is in good condition and well-adhered.

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## SURFACE AND AMBIENT CONDITIONS

### AMBIENT TEMPERATURE:

Do not paint at a temperature of below 7°C .

### SURFACE TEMPERATURE:

The surface temperature should be 2 - 3 °C above dew point when painting.

### RELATIVE HUMIDITY:

Never apply with relative humidity exceeding 80%.

### AMBIENT CONDITIONS:

The paint should not be applied under conditions of excessive sunlight, strong winds, or if rain is forecast.

## SURFACE PREPARATION

### UNPAINTED SURFACES:

#### Iron and Steel:

- If the surface is enamel coated, the existing enamel layer should be removed with our PAINT STRIPPER. Paint as if it were a new unpainted surface.
- Remove any existing mill scale. Remove any rust or rusted material (by sandblasting or scraping and mechanical or manual brushing), until a rust-free surface remains. Apply 1 or 2 coats of anti-rust primer according to instructions given in the possible application systems.

#### Wood:

- New wood: Removal of product residues and foreign substances. Must be properly sanded and then all dirt is removed. It is advisable to apply 1-2 coats of wood filler to regulate surface absorption. If subsequent protection is required it is advisable to apply a coat of PROTECTIVE BASE COAT before applying the wood filler. Finish with a XANOL product as necessary depending on the desired finish and final use.
- Paint using the normal procedure.

#### Concrete:

- If mechanical treatment cannot be carried out, use at least one chemical treatment: remove foreign or undesired agents using diluted hydrochloric acid, then remove the acid residues with plenty of water. Allow the surface to dry and then paint as normal.

### PRE-PAINTED SURFACES IN POOR CONDITION:

#### Wood:

- If the enamel-coated surface is not in ideal condition, the existing enamel layer should be removed with PAINT STRIPPER.
- Remove any rolling scale that might be left.
- Sand and apply one or two coats of primer and leave to dry for a minimum of 48 hours.

#### Iron and Steel:

- If the enamel-coated surface is not in ideal condition, the existing enamel layer should be removed with PAINT STRIPPER.
- Remove any existing mill scale. Remove any rust or rusted material (by sandblasting or scraping and mechanical or manual brushing), until a rust-free surface remains. Apply 1 or 2 coats of anti-rust primer according to instructions given in the possible application systems.
- Paint using the normal procedure.

#### Concrete:

- Remove efflorescences, product residues and foreign substances (grease, dust, oils and/or derivatives, etc.).
- Apply one coat of fixer to close the pore and prevent high absorption in the subsequent application of paint. (See possible application systems)
- Paint using the normal procedure.

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## POSSIBLE APPLICATION SYSTEMS

Use a brush, roller or spray gun for normal application of Acquatex PU matt finish. At least two top coats are recommended. Prior to the top coat and depending on the wall apply primer suitable for the yield specified in each case.

### PRIMERS:

- Acquatex Primer: Non-ferrous metal surfaces free from rust (stainless steel, galvanised steel, aluminium, etc.). Non-metallic surfaces (wood, plaster, PVC, tiles, etc.)Yield: 8-12 m<sup>2</sup>/L. Coats: 1
- Fixenol Consolidating primer: indicated for fixing, consolidating and sealing mineral substrates (cement mortar, concrete, Catalan tile, etc.)Yield:Concrete: 15-20 m<sup>2</sup>/L.Cement mortars: 10-15 m<sup>2</sup>/L.Fibre cement: 10 - 15 m<sup>2</sup>/L.Plaster/Cast plaster: 5 - 15 m<sup>2</sup>/L.Painted surfaces: 15 - 20 m<sup>2</sup>/L. Coats: 1
- Fixenol Pigmented: non-homogeneous surfaces (various materials, areas with different colours, repairs, etc.), where FIXENOL PIGMENTED is to be applied in the desired colour, in order to regularise the colour, absorption and appearance of the surface.Yield: 8 - 15 m<sup>2</sup>/L. Coats: 1
- Isalnox Water-based Multi-adhesive Primer: protection of rust-free metallic surfaces (steel, galvanised steel, aluminium, etc.), sealant for non-metallic surfaces (wood, gypsum, PVC, etc.)Yield: 8 - 10 m<sup>2</sup>/L. Coats: 1
- Xanol Sealant: sealing and filling of wood surfaces.Yield: 8 - 12 m<sup>2</sup>/L. Coats: 1
- Xanol Wood filler: smoothing of absorption of surfaces and increase in yield of finish.Yield: 1 - 12 m<sup>2</sup>/L. Coats: 1
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### FINISH ACQUATEX PU (MATE):

- Yield: 8 - 12 m<sup>2</sup>/l (35 - 50 micras secas)
- Coats: 2

## SAFETY

Consult the current safety data sheet for safe handling (Section 8.2). Unsuitable for children. Keep out of the reach of children. Do not place painted surfaces into the mouth.

## REMOVAL

Take the necessary measures to ensure waste is kept to an absolute minimum. Analyse all possible methods for reuse or recycling, in line with the local and national legislation in force. Take the necessary measures to ensure waste is kept to an absolute minimum. Analyse all possible methods for reuse or recycling. Do not pour down drains or into the environment. Dispose of the product at an authorised waste disposal site or through an authorised waste management company. Waste must be handled, stored and disposed of pursuant to current local- national legislation.

## STORAGE

See storage conditions indicated in section 7.2 of the current safety data sheet. Store the containers away from high temperatures, direct exposure to the sun and frost. Maximum recommended storage time: 12 months from manufacture in fully sealed original container, indoors and at temperatures between 5° and 35° C.

## LEGAL TEXT NOTE

This information and, in particular, the recommendations regarding the application and final use of the product, are given in good faith, based on the current knowledge and experience of Isaval Paints of the products when they are properly stored, handled and applied, in normal situations, within its useful life, according to the recommendations of Pinturas Isaval. In practice, the possible differences in the materials, supports and actual conditions at the place of application are such that it cannot be inferred from the information in this document, no any other written recommendation, neither any advice offered, will insure the guarantee in terms of marketing or suitability for particular purposes, neither any obligation outside of any legal relationship that may exist. The user of the products must carry out the tests to verify their suitability according to the use they want to give. Pinturas Isaval reserves the right to change the specifications of its products. The property rights of third parties must be respected. All orders are accepted according to the terms of our current General Conditions of Sale and Supply. Users should know and use the latest and updated version of the local Product Data Sheets, a copy of which will be sent to whoever requests them, or can also be obtained on the page [www.isaval.es](http://www.isaval.es). All data in this document are based on laboratory tests conducted at 20°C and 1 atm pressure. Measurements taken "on-site" may vary due to circumstances beyond our control, such as changes in environmental conditions of pressure and temperature.