

DESCRIPTION

Becc Intumescent Paint is a water-based coating specially designed to prevent a metal structure quickly reaching the collapse temperature during a fire, that is, it increases the fire resistance time. This allows a safer evacuation procedure of the building during a certain time.

It has excellent adhesion, cures at room temperature, is 100% paintable, and does not emit toxic gases. Meets ASTM E119 testing.

USE

BECC INTUMESCENT PAINT AQ can be used on all types of metal structures, mainly in residential buildings and homes. This product should be applied over the anti-corrosive primer indicated in the Surface Preparation section.

STRUCTURE	Structural elements (columns, trusses, etc.), Metal structure
Indoor/Outdoor	Interior, covered exteriors.
SURFACE	Carbon Steel (Black Iron)
Line	Industrial/Professional Line

PROPERTIES**SPECIAL PROPERTIES**

Appearance: Matt

No strong odour

This product requires a primer

Single part

PHYSICAL PROPERTIES		DATA
Volume Solids (%)		57 – 61
Weight Solids (%)		62 – 66
Weight per gallon (kg/gal)		5.2 – 53
Stormer Krebs Viscosity (Ku)		104 – 115
Theoretical yield (m ² /gallon)		90 m ² @ 1 mil
Shelf life		12 Months
Fire resistance time	ASTM E119	33' (@ DFT= 10 mils)*

These technical data were calculated under controlled laboratory conditions, but SUR QUÍMICA has no control over conditions, tools, applicator skills, selection, preparation, or compatibility of products used; therefore, can only guarantee this product quality, its features and qualities' suitability, but is not responsible for the results obtained in conditions impossible to check once the job has been done. SUR QUÍMICA has made reasonable efforts to ensure the accuracy of the information provided herein, but assumes no liability for any errors, omissions or inaccuracies thereof. If there is any inconsistency between different language issues of this document, Spanish version will prevail.

TECHNICAL INFORMATION

BECC INTUMESCENT PAINT AQ

521-87062-000



	41' (@ DFT= 20 mils)*
	74' (@ DFT= 35 mils)*
VOC (grams/liter)	75

Definition of theoretical yield: Maximum surface that can be coated with a paint in ideal conditions. Practical yield varies depending on type of surface, tool used, applicator experience, and other factors. 1 mil = one-thousandth of an inch (0.0254 mm).

_ (DFT): dry film thickness. Thickness indicated does not include the primary and finish.

(*) Note "Test carried out in the VTEC LABS Laboratory, under ASTM E119 (STANDARD TEST METHODS FOR FIRE OF BUILDING CONSTRUCTION AND MATERIALS).

For more information, please contact serviciotecnico@gruposur.com

CONTAINERS

AVAILABLE CONTAINERS

5-gallon bucket (18.925 Lt.)

1 gallon can (3.785 Lt.)

AVAILABLE COLORS

White 000

SURFACE PREPARATION

CONDITION	INSTRUCTION
SURFACE PREPARATION:	The surface to be painted must be free of rust, grease, dust or any other contaminant that may affect its performance.
Recommended cleaning:	Clean with abrasive blasting to a cleaning standard SSPC-SP5 or SP10.
Minimum cleaning:	Using a steel brush or rotary sander, clean the surface to a cleaning standard SSPC-SP2 or SP3, as directed by the Steel Structures Painting Council.
Primer:	It should be applied on the appropriate primer for each surface:
Primer for Carbon Steel (Black Iron)	EPOBECC AQ PRIMER 521-87055-307.
Finishes	Becc Top Finish AQ 521-87077-000

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TECHNICAL INFORMATION

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PRODUCT PREPARATION

COMPONENT	MIXING RATIO	MIXING INSTRUCTIONS
Product: BECC INTUMESCENT PAINT AQ 521-87062-000	100 Parts	Shake well before use:
Diluent Clean Water	10 Parts	Ready-to-use product. No dilution required. Dilute only if necessary

PRODUCT APPLICATION

APPLICATION TOOLS

BRUSH Airless equipment Roller

Application with airless equipment

Nozzle size	0.43 – 0.63 mm (0.017" – 0.025")
Fan Angle	60°
DRY THICKNESS PER LAYER (MILS)	10 mils
Wet thickness per coat	18 mils
Line pressure	180 – 200 BAR (2600 – 2900 psi)

These are reference values. The professional applicator may slightly adjust some value as indicated by field conditions.

Application conditions

Surface temperature:	5°C to 35°C
Room temperature	10°C ~ 40°C
Relative Humidity:	10 % – 80 %
Moisture between layers	30 % – 60 %

Surface temperature must be at least 3°C above dew point.

Number of layers and thickness

When one of these factors undergoes any change, specific measures must be taken.

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Drying time

Touch-Dry	180 min
Drying time to repaint	24 h (minimum)
Curing time in days	5 to 7 days

These mentioned drying times are under optimal conditions (between 22 – 28 °C temperature and 60 – 80 % relative humidity). These times depend on temperature, humidity, paint film thickness and dilution.

Application instructions

Before starting with the application of the intumescent paint, as well as for the first and second layer, verify that the environmental conditions are within the parameters established in the Application conditions section of this product's Technical Data Sheet.

✓ The environmental conditions of the tests listed are performed in the laboratory, so that they are controlled. Strong variations of them in the field, can cause typical blistering failures. The moisture of the film, between intumescent layers, should be in the range of 30% – 60%, as higher values may present blistering.

In high relative humidities (greater than 80%) drying times should be extended. If the application substrate is in an area in contact with outdoor conditions, such as wind currents, high humidity and rainfall, as is characteristic in the rainy season, blistering is possible due to moisture retention.

✓ After applying the primer, give 24 hours of drying to be able to apply the first layer of intumescent.

✓ If the application area is in contact with the exterior, a finish should be applied. The repaint time between the last coat of the intumescent and the finish is 24 hours.

NOTICE:

- ✓ Store this product in its sealed factory container between 20 °C and 30 °C, in a dry, ventilated place, out of the reach of children.
- ✓ The container must remain closed to prevent loss of its properties.
- ✓ If you need other information for safe handling of this product, you can visit our website <https://www.gruposur.com/asistencia/>

HEALTH

- ✓ The user of this product may need the appropriate Personal Protective Equipment, as described in the respective Safety Data Sheet (MSDS), available on our website <https://www.gruposur.com>
- ✓ If you need to dispose of empty packages of our products in Costa Rica, contact your SUR store or our industrial compound in La Uruca, San Jose.

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