

STOPCOAT 621 ATEX

Two-component glossy dissipative acrylic-urethane enamel

NATURE AND USE

High solid non-yellowing aliphatic acrylic-urethane finish, excellent for elasticity, gloss, surface hardness, is modified with special dissipative fillers which make this fully cured painting compliant with the requirements of EN IEC 60079-0 and EN ISO 80079-36 (use of non-metallic materials in hazardous explosive atmospheres due to the presence of gases including those of group IIC in accordance to EN ISO 80079-36).

Thanks to its peculiar formulation, this top coat resists particularly in industrial aggressive atmospheres and having excellent adhesion on various substrates, it can be used as a finishing coat of value on steel carpentry (pipes, valves, fittings, etc.) appropriately pre-treated, which will operate in explosive atmospheres due to the presence, for example, of gases such as hydrogen.

The product is part of a C5-I certified painting cycle, H (High) durability and C5 VH, VH (Very High) according to ISO 12944.

Finish tested and certified in accordance with UNI EN 13523-10, resistance to UV fluorescent radiation and water condensation of an organic coating/paint.

Test Report! IPN002-2024 University of Trento, Department of Industrial Engineering

The product is certified in compliance with the requirements of EN IEC 60079-0 and EN ISO 80079-36 (use of non-metallic materials in hazardous explosive atmospheres due to the presence of gases including those of group IIC in accordance with EN ISO 80079-36).

Test Report Eurofins Product Testing Italy No. EPT.23.ATEX.0197/2323043 and Test Report Eurofins Product Testing Italy No. EPT.23.ATEX.0196/2323043.

The product is also part of certified painting systems where each coat of the system and the integral cycle comply with the requirements of EN IEC 60079-0 and EN ISO 80079-36 (use of non-metallic materials in dangerous explosive atmospheres due to the presence of gas included those of the IIC group in accordance with EN ISO 80079-36).

Systems: Stopcoat 71 Atex / Stopcoat 307 Atex / Stopcoat 621 Atex;

Test Report Eurofins Product Testing Italy No. EPT.23.ATEX.0197/2323043

Stopcoat 303 Atex / Stopcoat 307 Atex / Stopcoat 621 Atex.

Test Report Eurofins Product Testing Italy No. EPT.23.ATEX.0196/2323043.

Product qualified for SNAM above ground systems including the external of installations subject to Atex IIC due to the presence of hydrogen.

TECHNICAL DATA



Type of binder:	Acryl Urethane Aliphatic non-yellowing
Specific Gravity A+B:	kg/l 1,20 ± 0,10 @ +20°C
Solids by Weight:	% 70 ± 2 % A+B
Solids by Volume:	% 60 ± 2 % A+B
Mixing Ratio by Weight:	80 parts of Base / 20 parts of Hardener
**Pot life @ +20°C:	≥ 3 hours
Colour:	RAL
Final film appearance:	Glossy

SUBSTRATE PREPARATION

Steel: On substrate blast cleaned to SA 2,5 apply one coat of epoxy undercoat or of primer with zinc. After 24 hours apply a second coat of epoxy intermediate and then complete with 1-2 coats of Stopcoat 621 enamel, recoat interval 24 hours between each coat.

Aluminium, Light alloys, Hot Galvanized Steel: Remove the oxidized superficial coat by mechanic brush or grinding disk. Remove dust and brushing residuals, degrease the substrate with Epothinner and apply 1 coat of STOPCOAT 305 or EPOXY PRIMER 938 or other suitable Primer.

Finish with the application of 1-2 coats of Stopcoat 621, recoat interval 24 hours between each coat.

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Company with quality management system UNI EN ISO 9001:2015 certified

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Substrates already coated: Verify the compatibility with the underlying material, perform very accurate cleaning of the substrate and removal of any contaminant. The substrate shall be perfectly dry and free from any traces of humidity.

Other substrates: Cleaned, adequately prepared and treated with suitable primer.

PRODUCT PREPARATION

Separately stir each component carefully. While the Hardener (component B) is added to the Base (component A) continue mixing to reach the complete homogenization.

Let the mix rest for 5 minutes before starting the application. The indicated time can increase or decrease depending on the type of equipment in use for the application.

** The "POT LIFE" time of two components products (time within which it is possible to apply the paint mix of Base and Hardener), is exponentially dropped by the increase of product temperature.

Note: The use of a mix of paint (Base + Hardener) over the POT LIFE time is irreparably compromising all the properties of the coating film.**

APPLICATION DETAILS

Application method:		Standard Airless Spray compression ratio 30:1 minimum Conventional Spray Roller Brush only small areas
Thinner:		THINNER PUR11
Thinning:	%	ready to use 0-10% max only if necessary
Cleaning:		THINNER PUR11
Hardening @ +25°C:		Dust dry 1 – 2 hours Handling 6-7 hours Through dry about 20 – 24 hours
Overcoating interval @ +20°C:		Minimum 4 hours / Maximum 24 hours
Application Ambient Temperature:		Between +5°C and +35°C
Suggested Temperature of the product:		+20 ÷ +30°C
Substrate Temperature:		+5 / +40°C always at least +3/5°C above dew point
Relative Humidity:		≤ 8%
Film thickness:		Minimum 40 µm dry (DFT) / Maximum 80 µm dry (DFT)
Theoretical spreading rate:	sqm/kg	10 at a dry film thickness of 50 µm (DFT)

More info by writing to sales@industri brunostoppa nipa nts.com or by calling +39 030 9745116

HANDLING STORAGE AND SAFETY PRECAUTIONS

Warning: All handling and/or use activities of the material and its components must strictly refer to the given indications in the Safety Data Sheet (Base and Hardener). The following advices are stated by common sense and in good faith, they are uncompleted and do not substitute the content of each specific safety data sheet of the product.

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Handling: The material must be used only by professional and qualified applicators suitably trained. All the operations involving the use of the product, must be carried on in compliance with all the relevant National Health, Safety & Environmental standards and regulations.

Precautions: When the product is used in enclosed areas (rooms, containers, vessels, etc.) it is imperative to use adequate means providing the necessary air circulation, to be granted during the whole application and coating polymerization time, also to avoid conditions open to potential explosion danger.

All electrical installations must always be grounded. Where explosion hazards exist, the workmen should be required to use only non-ferrous tools and wear conductive non-sparking shoes and clothing. Explosion and flame-proof equipment too are required.

Storage and transport: Keep far from flames, sparks or heat sources. Do not leave exposed under direct solar action. Store under shelter in original unopened packaging, in cool, dry and ventilated areas, at temperatures between +5°C and +35°C.

Shelf life:

Base 12 months in the suggested storage conditions (original unopened packaging)

Hardener 6 months in the suggested storage conditions (original unopened packaging)

N.B.: Product for professional use only
and exclusively for the uses not regulated under CE Directive 2004/42/CE.

Refer to Material Safety Data Sheet



Access catalogues, data sheets and company presentations

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