

STOP COAT 307 ATEX

Dissipative two-component epoxy-polyamine Primer/intermediate

NATURE AND USE

Two-component, high-solids Primer/intermediate of epoxy-amine nature, modified with special dissipative charges which attribute to the application completely cured, the compliance with the requirements of EN IEC 60079-0 and EN ISO 80079-36 (use of non-metallic materials in hazardous explosive atmospheres for presence of gases including those of group IIC in accordance with EN ISO 80079-36). Thanks to its peculiar formulation, as well as offering excellent passive anti-corrosion protection which makes it suitable for use in initial anti-corrosion systems for their and structures protection also when operating in the aggressive environment.

The product can be applied to steel carpentry (pipes, valves, fittings, etc. suitably prepared, which will operate in potentially explosive atmospheres due to the presence, for example, of gas like hydrogen.

Stopcoat 307 ATEX boasts excellent applicability and rapid drying combined with a fairly long pot-life (with standard hardener).

A "Fast" hardener is also available with good curing properties even at temperatures between +3/+10 °C, for applications during the winter period.

Stopcoat 307 ATEX reaches a dry thickness of up to 200 µm dry (DFT) per coat.

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

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 system 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 cycles including the exterior of installations subject to ATEX IIC due to the presence of hydrogen.

GENERAL PROPERTIES

Abrasion:	Good resistance to abrasion and mechanical damages
Adhesion:	Excellent on duly prepared surfaces
Resistances:	
Acid solutions.....	Good resistance
Alkaline solutions.....	Good resistance
Sea water.....	Good resistance
Deionised water.....	Good resistance
Marine atmosphere	Good resistance
Industrial atmosphere	Excellent resistance
Petrochemical atmosphere.....	Excellent resistance

TECHNICAL DATA

Specific Gravity A+B:	kg/l	1,55 ± 0,05 @ +20°C
Solids by Weight:	%	90 ± 2 % A+B
Solids by Volume:	%	84 ± 2 % A+B

MTDS 01024 Page 1 of 3

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Mixing Ratio by Weight:

87 parts of Base / 13 parts of Hardener

**Pot life @ +20°C:

~ 1,5 hours with "STD" STANDARD Hardener
~ 30 minutes with "FAST" Hardener

Colours:

Light Grey, Different colours on request

SUBSTRATE PREPARATION

All substrates: Degreased and contaminants free. After roughening, accurately dusted.
Make sure all substrates are perfectly free from Humidity traces before coating application.

Steel Blast cleaning down to SA 2,5 according to ISO 8501/1 with minimum roughness profile RZ DIN 30-60 µm. When sandblasting is not possible, the substrate must be dry, degreased, perfectly cleaned and rust and Calamine free, then mechanically abraded to minimum grade ST3 according to ISO 8501/1.

Hot galvanized steel: Dry, abraded and perfectly degreased.

Concrete: Clean, dry, seasoned, free from crumbly loosing parts, free from efflorescence and detaching Oils used as removing oils.

Substrates with old paints: Necessary to evaluate the uniformity and the adhesion to the substrate of previous coat, then wash with water / degreasing -
After the substrate is fully dry, apply Stopcoat 307 on adequately roughened substrate accurately dedusted.

PRODUCT PREPARATION

Separately stir each component carefully in the original container. Mix in the right proportion Base and Hardener, stirring the mix for 5 minutes to reach the complete homogenization, then pour in the dedicated container of the spraying apparatus.

** 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 with compression ratio 45:1 minimum
Conventional Spray
Roller, Brush

Airless Spray:

Nozzle Ø 0.018 - 0.021 inches
Pressure 160 - 180 Kg/sqcm

Thinning:

0 - 10 % Epothinner

Cleaning:

Epothinner

Hardening @ +25°C:

Touch dry 3 / 4 hours with "FAST" Hardener
Touch dry 6 / 8 hours with "STD" Hardener
Through dry 6 / 8 hours with "FAST" Hardener
Through dry 12 / 18 hours with "STD" Hardener

Overcoating @ +20°C:

4 / 24 hours with "FAST" Hardener
(after 36 hours we recommend sandpapering)
12 / 36 hours with "STD" Hardener
(after 48 hours we recommend sandpapering)

SDS 01024 Page 2 of 3

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Temperature for application:	+3/+35°C Always at least +3/+5°C above Dew Point
Temperature of the product:	+20°C (Suggested).
Minimum temperature of the substrate:	+5 °C - Max. +40°C
Relative humidity:	≤ 85 %
Suggested thickness:	150 µm dry film thickness (DFT) wet film thickness (WFT) ~ 175 µm Min. 80 µm dry (DFT) / Max. 250 µm dry (DFT)
Theoretical spreading rate:	sqm/l 5.6 3.6 sqm/Kg at the suggested thickness
Theoretical consumption:	~ 280 g/ sqm at the suggested thickness

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.

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 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 12 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

MTDS 01024 Page 3 of 3

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