STOPCOAT 303 ATEX

Dissipative epoxy/Surface Tolerant mastic / highly performing product

NATURE AND USE

Stopcoat 303 is an aluminized surface tolerant epoxy mastic, formulated with polymeric plasticizers, zinc phosphates, micaceous iron oxide and modified with special dissipative charges that make the paint completely polymerized in compliance 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 gases including those of group IIC in accordance with EN ISO 80079-36).
Primer, intermediate coat for steel, product particularly suitable for the maintenance of installations and structures in aggressive on-off shore industrial environments.
Thanks to the content of special dissipative charges, in addition to offering excellent active anti-corrosion protection, it can be applied to steel carpentry (pipes, valves, fittings, etc.), appropriately prepared, which will operate in explosive atmospheres due to the presence, for example, of gases such as Hydrogen.
Stopcoat 303 Atex allows to reach a dry thickness up to 200 µm dry (DFT) per coat. It can also be applied to steel after mechanically brushing with metal bristles or abrasive wheels if sandblasting is not possible, or on suitably prepared concrete.

Note: Like all materials of the same nature and type also Stopcoat 303 Atex polymerized film, when exposed in air in external ambient, due to the action of atmospheric agents (sun, rain etcetera) may undergo colour changing with chalking and tarnishing.
These phenomena are only aesthetic ones and do not indicate a loss of the corrosion protection property from the coating as the characteristic of the film is not altered.

The product is part of some C4 and C5I certified painting systems, H (High) durability according to ISO 12944 ref. Paint system A4-09 and A5I-02.

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.0196/2323043.

The product is also part of a certified painting system where each coat of it and the complete system complies 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 including those of group IIC according to EN ISO 80079-36).
System: Stopcoat 303 Atex / Stopcoat 307 Atex / Stopcoat 621 Atex.
Test Report Eurofins Product Testing Italy No. EPT.23.ATEX.0197/2323043.

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

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GENERAL PROPERTIES

Corrosion protection:	The application of just one coat is providing an excellent protection to the steel substrate.
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	Excellent resistance
Deionised water	Good resistance
Marine atmosphere	Excellent resistance
Industrial atmosphere	Excellent resistance
Petrochemical atmosphere	Excellent resistance

TECHNICAL DATA

Specific Gravity A+B	kg/l	1,50 ± 0,05 @ +20°C

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

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Dissipative epoxy/Surface Tolerant mastic / highly performing product

Solids by Weight:	%	90 ± 3 % A+B
Solids by Volume:	%	86 ± 3 % A+B
Mixing Ratio by Weight:		80 parts of Base / 20 parts of Hardener
Mixing Ratio by Volume:		70 parts of Base / 30 parts of Hardener
****Pot life @ +20°C:**		≥ 6 hours
Colours:		Grey, Different colours on request

SUBSTRATE PREPARATION

All types of substrates: All surfaces must be free from residual of greases and contaminants. After roughening, perform accurate dust removal. Verify that the substrates to coat are always completely free from traces of humidity.

Steel: Sandblasting at grade SA 2,5 according to ISO 8501/1 with minimum roughness profile Rz DIN 30 – 60 µm. When sandblasting is not possible, the substrate should be dry, degreased, perfectly cleaned and free from rust or calamine, mechanically abraded at the minimum grade ST3 according to ISO 8501/1.

Steel already coated: All detaching or not well anchored parts of old paint must be mechanically stripped as well as all rust scraped off. Roughen well the surface to treat to reach the proper adherence between paint and substrate. Eliminate all dust and other residuals from the above operations.

Note: We suggest to verify always in any case and preliminarily the compatibility between old paint and the new one to be applied.

Oxidized substrates: Degreasing, Sandblasting SA1 / SA2 / brushing ST3 with grinding wheel for steel .

Concrete: Clean (free from oils, detaching greases and any other surface contaminant), dry (internal Humidity lower than 4%), seasoned (28 days at least if normal Portland), perfectly roughened and free From dust, flaking parts and efflorescence.
Before the application of STOPCOAT 303 it is necessary to verify inside the cement the total absence of any action generated by the presence of water, by capillarity and water bed.

PRODUCT PREPARATION

Mixing method: Mix base and hardener content. Add gradually the hardener to the base stirring the two components until a homogeneous colour is reached. (Same procedure also in case of thinning)

** 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 / 15 % Epothinner

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Cleaning:		Epothinner
Hardening @ +25°C:		Touch dry 2 /4 hours Dry to handle 24/36 hours
Overcoating @ +20°C:		24 / 36 hours After 48-72 hours we recommend a light sandpapering
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:		≤ 85%
Suggested thickness:		150 µm dry film thickness (DFT) wet film thickness (WFT) about 175 / 180 µm Min. 100 µm dry (DFT) / Max. 200 µm dry (DFT)
Theoretical spreading rate:	sqm/l	5,8 – 3,9 sqm/Kg at the suggested thickness
Theoretical consumption:	g/sqm	256

More info by writing to sales@industriebrunostoppanipaints.com or by calling +39 030 9745116

HANDLING STORAGE AND SAFETY PRECAUTIONS

Warning: All handling and/or use activities of the materl 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 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 12 months in the suggested storage conditions (original unopened packaging

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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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