

NATURE AND USES

Two-component epoxy coating with polyamine-amide adduct hardener. Used as primer or as intermediate coat in new corrosion protection paint systems and maintenance coating systems on structural steel in severe corrosive exercise environment.

The characteristics and the performances of Stopcoat 309 are allowing its use on substrates in direct occasional contact with oils, kerosene, Naphtha, aqueous solution of soda or chemical agents mildly aggressive, and can be used also on works operating in industrial or coast and off-shore environment (the product has good salt spray resistance and is performing in immersed sea areas).

Stopcoat 309 can be applied on steel, aluminium and galvanized sheet iron in multipurpose sectors.

High mechanical performances characterize the full cured coating properly applied. When the product is applied on steel substrate, abrasive blasting to minimum Sa 2,5 according to ISO 8501/1 is suggested to reach the highest performances.

Stopcoat 309 can also be used as one pass coloured finishing on concrete.

NB : Like other materials of the same nature and type also Stopcoat 309 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 are not indicating a loss of protective anticorrosion functions of the coating, characteristics of the film which is not altered.

TECHNICAL DATA



Type of Binder:		Epoxy Amino Amide
Specific Gravity A+B:	kg/l	1,45 ± 0,05 (according to the involved colour)@ +20°C
Solids by Weight:	%	70 ± 2 % A+B
Solids by Volume:	%	52 ± 2 % A+B
Mixing Ratio by Weight:		100 parts of Base / 20 parts of Hardener
**Pot life @ +20°C:		~ 4 hours
Temperature resistance (in dry air):	C°	+ 140°C in continuous
Colour:		White, Grey, Oxide red (other colours on request)
Appearance of the applied coat		Satin

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.

New galvanized steel: Dry, abraded and perfectly degreased.

Galvanized steel previously painted: Abrade to remove all rust traces.

Aluminium: Dry, degreased and lightly abraded or chemically treated.

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 dedusted, free from flaking parts and efflorescence.

Before the application of STOPCOAT 309 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

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:	Standard airless spray or air mix, compression ratio 45:1 minimum Conventional spray Brush Wool roller
Thinner:	Thinner for epoxy products EPOTHINNER
Thinning: %	Spray, brush, roller 0-15%; different thinning can be required according to the substrate absorption, the required thickness and the application system used.
Cleaning:	Epothinner
Hardening @ +25°C:	Touch dry 3-4 hours Dry to handle in 18/24 hours The full curing and the maximum resistance performances are reached after 7 days
Recoat Interval @ +20°C	Min. +18/+24 hours; Max. 3 months
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:	Sandblasted steel: Min. 80 / Max. 150 µm dry (DFT) Aluminium and galvanized sheet: min. 40 / Max. 70 µm dry (DFT)
Typical thickness per coat:	Min. 40 Max. 150 µm dry (DFT)
Theoretical Spreading Rate: sqm/Kg	3,6 at 100 µm dry (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.

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)

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