

# ZINCANTE INORGANICO SCZ/E

Inorganic zinc based primer

## NATURE AND USE

This product is an inorganic coating based on zinc silicates. It is used as anti-corrosion primer on steel substrates previously sandblasted. The product provides excellent resistance to inclement weather, to abrasion, to impact and to heat. Suitable as primer on new steel structures to be exposed in marine atmosphere and in particularly aggressive industrial environments, in immersion service or in open air.

Thanks to its rich content of Zinc powder it provides an excellent corrosion protection on pipelines, wharfs, marine and heavy carpentry, etc. (cathodic protection). It can be considered finishing coat or it can also be over-coated with epoxy paints, epoxy-vinyl, epoxy-tar, polyurethane, chlorinated rubber based and silicon enamels of aluminium type for high temperatures.

The product is particularly suitable to coat internally tanks transporting oil products (crude or refined oil products), solvents such as esters, alcohols ketone, aromatic solvents, aliphatic and chlorinated ones.

Possible to perform maintenance application on the coating during time with no need of mechanical preparation of the substrate (important in such cases to de-dust accurately the substrate or in case of higher contamination a washing with suitable detergent is suggested, followed by drying operations).

Avoid its application in critical conditions of humidity and temperature.

The Product complies with ENEL Dco (P28) Specifications

## TECHNICAL DATA



Colour:		Base: Grey Zinc / Hardener: Neutral
Specific Gravity A+B	kg/l	3,2 ± 0,1 @ +20°C
Solids by Weight:	%	89 ± 3 % A+B
Solids by Volume:	%	62 ± 3 % A+B
Mixing Ratio by Weight:		80 parts of Base / 20 parts of Hardener
**Pot life @ +20°C:		≥ 6 hours
Max Continuous Service T°C:		+350 / +400 °C (In Air, dry conditions)
Film appearance:		Matt

## SUBSTRATE PREPARATION

**Steel :** The steel substrate must be fully cleaned to eliminate possible residuals of dirty and salts, it must be free from residual of grease, oils and any contaminant. Abrading Sandblasting at SA 2,5 minimum according to ISO 8501/1, Medium roughness profile 40-70 µm Rz DIN . (cut-off 2,5 mm).

## PRODUCT PREPARATION

Separately homogenize the component B in the original can received. Add the powder of Component A to Component B and mix to get complete homogenization.

Let the mix rest 5 minutes before starting the application. The indicated time can increase or decrease according to the equipment used 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.\*\*

MTDS 01018/ Page 1 of 3

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## APPLICATION DETAILS

Application Method:	Standard Airless Spray compression ratio 30:1 minimum Conventional Spray (non-optimal method)
Standard airless spray:	Nozzle Ø 0,018-0,021 inches Compression ratio 30:1 Air Pressure Exit 120-140 Kg/sqcm
Thinning: Cleaning:	Not necessary – The product is ready to use Thinner 7263/02
Hardening @ +25°C- 50%UR:	Touch dry 30 minutes – 1 hour Dry to handle 3 – 4 hours

**Note** High thicknesses, poor ventilation or low ambient temperatures, will require long polymerization intervals with possible solvent entrapments and consequent early failure of the applied product. Also an ambient relative Humidity lower than 50% will require extra polymerization intervals : on this subject it will be possible, after 2-4 hours at +20/+25°C to accelerate the hydrolysis wetting often and abundantly with fresh water the coated substrates.

**Overcoating Interval @ +20°C- 50%UR:** 24 – 48 hours Minimum, unless the coating has reached the curing grade 4 or 5 according to ASTM D 4752

Maximum unlimited time (\*)

**(\*) NB:** Before the overcoating of the substrates after time, be sure the surfaces are free from contaminants and free from Zinc salts. The surfaces therefore must be treated with solvents or water with detergents to remove oils, greases, etc.. The Zinc Salts will be removed with high-pressure washing.

**Overcoatability:** Possible with Polyurethane, epoxy, acrylic, silicone and phenol based enamels.  
After the inorganic zinc primer it is necessary to apply one coat of intermediate or one coat Of epoxy or vinyl-epoxy product as tie-coat before the finishing.

The suitability to the overcoating of the product can be checked referring to the method described in ASTM D 4752 (rub-test with MEK).

**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:** 50 - 95 %

**Thickness per coat:** Min. 30 µm - 75 µm Max. dry (DFT)  
**Typical Dry Film thickness:** 50 µm dry per coat (DFT) - wet about 80 µm (WFT)  
**Theoretical spreading rate** sqm/kg 3,5-4,5 at the thickness of 50 µm dry (DFT)

More info by writing to [sales@industri brunostoppa nipa nts.com](mailto:sales@industri brunostoppa nipa nts.com) or by calling +39 030 9745116

MTDS 01018/ Page 2 of 3

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## 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 6 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 01018/ Page 3 of 3

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