



# WEGTHANE 509 NOBAC

**PRODUCT DESCRIPTION:** Gloss high-solids antimicrobial aliphatic acrylic polyurethane topcoat. Studies have shown that some microorganisms are resistant to cleaning processes and disinfection agents. Staphylococcus aureus has been shown to survive for more than three years, and the bacterium Listeria monocytogenes can survive for more than 10 months. Therefore, WEG created an alternative to protect the surfaces that are in contact with harmful microorganisms, having as characteristic to eliminate them in up to 18 hours. W-THANE NOBAC was formulated so that its antimicrobial system is polymerically interconnected inside the paint, and thus it will never be removed by bleach. W-THANE NOBAC is permanently active throughout the coating life. Its application produces a continuous, hygienic and easy-to-clean film.

**RECOMMENDED USES:** Medical and dental equipment, food processing equipment, air conditioning units, steel and kitchen furniture, home appliances and utensils, veterinary equipment, bathroom accessories, door locks, stair handrails and others.

**CERTIFICATIONS AND APPROVAL:** This product, when supplied to comply with the RoHs Directive (Restriction of Certain Hazardous Substances) has the letter R in its description.

PACKAGING:	Component	Content	Package	Unit of measurement
	Component A	13,3	20	L
		2,4	3,6	
	Component B	2x 3,35	4	L
		1,2	1,5	

**CHARACTERISTICS:**

**Color:** Ral, Munsell or as per customer standard.

**Gloss:** Gloss

**Volume solid:** 36 ± 2% (ISO 3233).

**Shelf-Life:** 24 months at 25°C.

**Thickness per coat (dry):** 50 µm –60 µm

**Theoretical coverage:** 6,5 m<sup>2</sup>/l without dilution in the thickness of 55 µm dry. Without considering loss factors in application.

**Resistance to dry heat:** Maximum temperature 90 °C . The product retains its physical and chemical properties up to the temperature of 90 °C however, variations in the coating color and gloss may occur from 60 °C.

Drying:	10°C	25°C	35°C
<b>Touch:</b>	2 hours	1 hour	40 minutes
<b>Handling:</b>	6 hours	5 hours	4 hours
<b>Final:</b>	192 hours	168 hours	144 hours

Overcoating Drying:	10°C	25°C	35°C
Min	6 hours	5 hours	4 hours
Max	30 hours	24 hours	20 hours

**SURFACE PREPARATION** The performance of this product depends on the degree of surface preparation.

The accumulated dirt must be removed using a dry brush, clean and dry cloth, compressed air blow, vacuum cleaner and/or with the combination of such items, and the soluble salts must be removed through wash with a great quantity of fresh water, preferably with low pressure (up to 5,000 psi) according to SSPC-SP 12/NACE No. 5.

**Application over primer**  
The product can be directly applied to a specific primer in order to form a suitable coating system.

**NOTE:** Observe the product overcoating interval to apply the next coat. In case the maximum overcoating interval has been exceeded, it is necessary to manually/mechanically sand the surface to break the gloss of the previous coat and clean the sanding residues so as to provide better adhesion between the coats.

**For further information, consult WEG Technical Department.**

## PREPARATION FOR APPLICATION

### Mixture

Homogenize the contents of component A by means of manual, mechanical or pneumatic stirring. Add component A to component B gradually. Slowly homogenize by manual or pneumatic stirring until a homogeneous, lump free mixture is obtained. The mixing ratio indicated for the preparation of the paint should be respected. If necessary, filter in a screen mesh 60.

### Mixing ratio (Volume)

2 A X 1 B.

### Diluent

Pu diluent 5003

### Dilution

Depending on the application method, dilute at most. 20%

Only add the diluent after complete mixing of components A + B.

Do not dilute with solvents that are not allowed by local legislation and do not exceed the recommended dilution percentage.

Excessive dilution of the coating may affect the formation and aspect of the film and not allow to reach the specified thickness.

### Pot life of the mixture (25°C)

3 h

### Induction time (25°C)

No induction time required.

In hot areas, we recommend consulting WEG Technical Department.

## APPLICATION FORMS

**The data below is a guide, and similar equipment may be used.**

The data below is a guide, and similar equipment may be used. Changes in nozzle sizes and pressures may be necessary to improve spraying characteristics. Before application, check if the equipment and its components are clean and in best condition. Purge the compressed air line to prevent contamination of the coating.

After mixing two-component products, if there are stops in the application, and pot life is exceeded (the coating shows variation in fluidity) it can no longer be diluted for further application.

Recoat all sharp edges, cracks and weld beads with a brush to prevent premature failures in these areas.

### Conventional gun:

Gun:	JGA 502/3 Devilbiss or equivalent
Fluid nozzle:	EX
Air cap:	704
Atomization pressure:	60 - 65 psi
Pressure in the tank:	10 - 20 psi
Dilution:	20%

### Brush:

Only recommended for touch up small areas or stripe coat (screws, nuts, weld and sharp edges). Use a brush 75 to 100 mm wide for larger surfaces and 25 to 38 mm for touch up.

### Cleaning the equipment:

Pu diluent 5003

## NOTE:

Do not leave catalyzed product in contact with the equipment used in the application, because the coating will vary in fluidity at temperatures above specified in the pot life and will cure faster, making the cleaning difficult.

Clean all equipment immediately after use.

## PERFORMANCE IN THE APPLICATION

For a good performance of the product, we recommend following the directions below:

Antimicrobial action. It inhibits bacteria and fungi proliferation on the painted surface and guarantees a high level of hygiene, avoiding the presence of harmful micro-organisms, such as:  
Bacteria: Bacillus sp., Bacillus subtilis, Bacillus cereus, Clostridium perfringens, Enterobacter cloacae, Enterococcus faecalis, Escherichia coli O157:H7, Klebsiella pneumoniae, Legionella pneumophila, Listeria monocytogenes, Mycobacterium tuberculosis, Proteus mirabilis, Proteus vulgaris, Pseudomonas aeruginosa, Pseudomonas putida, Salmonella choleraesuis, Salmonella typhimurium, Staphylococcus aureus, Staphylococcus epidermidis, Streptococcus lactis, Vibrio cholerae.  
Fungi: Aureobasidium pullulans, Aspergillus niger, Endomycopsis albicans, Penicillium sp, Rhodotorula rubra, Saccharomyces cerevisiae, Tricophyton mentagrophytes.

In paintings carried out in front of the sea, if exposed to sea air, we recommend to wash with fresh water between coats eliminating settled impurities.

Light colors may require more than one coat for an even coverage.

We recommend coating only if the surface temperature is at least 3 °C above the dew point temperature.

Do not apply the product after the pot life has expired.

For better application properties, the coating temperature should be between 21 - 27 °C prior to the mixing and application.

It should not be applied under adverse conditions, such as air relative humidity (RH) above 85%, as changes in color and appearance may occur.

Polyurethane systems (component A and B) present when exposed to air relative humidity, which can cause flaws in the dry film and reduction of pot life. Therefore, we recommend that the packages of each component be properly closed after use and kept in dry places protected from bad weather.

For further information, consult WEG Technical Department.

## SAFETY PRECAUTIONS

Product developed for industrial use intended for handling by qualified professionals.

Please read carefully all the information contained in the MSDS of this product, available at: [www.weg.net](http://www.weg.net).

Store in a covered, well-ventilated area. Keep the container tightly closed and away from sources of heat or ignition.

Use only in well-ventilated areas avoiding the accumulation of flammable vapors. Keep the product away from heat and sources of ignition.

Do not inhale mists / vapors / aerosols generated during handling and / or application.

Wear protective gloves / protective clothing / eye protection / face protection.

Avoid release this product and its packaging, as well as materials used during handling and application in the environment.

## NOTE:

The information contained in this technical datasheet is based upon the experience and knowledge acquired in the field by the technical team of WEG.

If using the product without previous inquiry to WEG Coating concerning its suitability for the customer's intended purpose, the customer is aware that the use shall be its exclusive responsibility, WEG not being responsible for behavior, safety, suitability or durability of the product.

Some information contained in this datasheet are estimated, and can undergo variances arising from factors outside the manufacturer's control. Thus, WEG does not guarantee and does not assume any responsibility regarding the yield, performance or any other material or personal damage resulting from the incorrect use of the products concerned or the information contained in this Technical datasheet.

The information contained in this technical datasheet is subject to periodic modification, without prior notice, due to the policy of evolution and continuous improvement of our products and services, providing solutions with quality to satisfy our customers' requirements.

