



## W-THANE APA 501 PROTECTION

**PRODUCT DESCRIPTION:** Acrylic Aliphatic Polyurethane topcoat, high gloss, with high solids per volume. Virucidal product, tested and approved.

**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.

Virucidal property of the W-THANE APA 501 line attested through a test carried out in a NB-2 laboratory (Biosafety Level 2) following anvisa recommendations Art. 1 and Art. 3 of IN 04/13 and IN 12/16 and methodologies described in standards: INTERNATIONAL STANDARD ISO- BS ISO 21702: 2019 (First edition 2019-05-27): "Measurement of antiviral activity on plastics and other non-porous surfaces" and by Robert Koch Institute - RKI) and in accordance with Good Laboratory Practices (GLP).

Tests performed with Coronavirus strain MHV-3, Genus Betacoronavirus (same genus and family of SARS-CoV1, SARS-CoV-2/Covid19, MERS).

PACKAGING:	Component	Content	Package	Unit of measurement
	Component A	3 0,75	3,6 0,9	L
	Component B	0,6 0,15	0,9 0,25	

**CHARACTERISTICS:**

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

**Gloss:** Gloss >80 UB

**Volume solid:** 63 ± 2% (ISO 3233).

**Shelf-Life:** 24 months at 25°C.

**Thickness per coat (dry):** 60 µm –70 µm

**Theoretical coverage:** 9,6 m2/l without dilution in the thickness of 65 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>	7 hours	4 hours	3 hours
<b>Handling:</b>	12 hours	8 hours	5 hours
<b>Final:</b>	300 hours	168 hours	168 hours

**Overcoating Drying:**

	10°C	25°C	35°C
Min	10 hours	8 hours	5 hours
Max	48 hours	48 hours	36 hours

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

The surface must be clean, dry and free of any contaminants. Completely remove oils, greases and fats, as described in the SSPC-SP 1 standard.

**Application over primer**

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

Observe the primer overcoating interval before applying the product. If the primer overcoating time is

exceeded, sand as described in the primer data sheet. In coatings made on a primer after the overcoating interval, the adhesion values according to ASTM D 4541 may present lower values than those specified by Petrobras standard N 2913.

### Tile Surface Treatment

Recommending the sealer W-POXI HSS 301.

#### New buildings

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

### Concrete Surface Treatment

It is recommended to seal the concrete with W-POXI CVS 301 or W-POXI HSS 301.

### Maintenance and repair

**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 content of component A by means of mechanical stirring. Ensure that no sediment is trapped at the bottom of the package. Add component B to component A, in the proportions (volume) indicated, under agitation, until complete homogenization, respecting the mixing ratio.

### Mixing ratio (Volume)

5 A X 1 B.

#### Diluent

**Pu diluent 5003**  
**PU Diluent 5004**

**PU Diluent 5007**

For temperatures lower than 25°C.  
For temperatures between 25°C and 35°C.  
For temperatures above 35°C and oven drying.

#### Dilution

Depending on the application method, dilute at most. 15%

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

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

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)

2 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.**

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 DevilBiss or equivalent

# TECHNICAL DATA SHEET



Fluid nozzle: EX  
Air cap: 704  
Atomization pressure: 50 - 70 psi  
Pressure in the tank: 10 - 20 psi  
Dilution: 15%

**Airless Gun:**  
Use Airless: Use at least pump 60: 1  
Fluid pressure: 1500 - 2500 psi  
Hose: 3/8" internal diameter

Nozzle: 0,015" - 0,021"  
Dilution: Max. 5%

### 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.  
Use a brush 75 to 100 mm wide for larger surfaces and 25 to 38 mm for touch up.

### Roller:

For application with brush and/or roller, two or more passes may be necessary to obtain a uniform layer according to the recommended film thickness per coat. For application with brush and/or roller, two or more passes may be necessary to obtain a uniform layer according to the recommended film thickness per coat.

### Cleaning the equipment:

Pu diluent 5003  
Clean all equipment immediately after use.

### 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.

### PERFORMANCE IN THE APPLICATION

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

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.

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

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

Variations in color, aspect and gloss (more noticeable in dark colors) may occur, as well as delay in curing and low coating performance, when applied during periods of high air relative humidity, rainy days, low temperatures or drying the coating outdoor.

The temperature of the substrate, the weather and environmental conditions during the application and during the curing of the product, and the thickness of the coat may interfere in the product drying time.

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.

On newly painted surfaces in direct contact with water during the curing process, localized stains may occur with changes in their color (more visible in dark colors), delay in curing and compromised product performance.

In coatings with variation in application method in the same job, the final aspect and gloss of the painted surfaces may show differences.

For further information, consult WEG Technical Department.

### COMPATIBILITY OF SYSTEMS AND MAINTENANCE REFINISHING

The primer overcoating interval should be respected before applying the topcoat. If the maximum recommended overcoating interval is exceeded, manual/mechanical sanding is necessary to break the gloss. The primer surface must be dry and free of any contaminants.

In situations where the nature of the primer is unknown, it is recommended to test the compatibility of the product in a small area. Check the original material is well adhered. All loose coating must be removed. Points with corrosion or application over aged coatings should be treated according to technical guidance.

The direct application of this product on zinc-rich ethyl silicate-based primers, alkyd primers, coal tar-

based coatings and other single-component primers is not recommended. When necessary to apply the topcoat over one of the primers mentioned above, we recommend the application of an appropriate intermediate coating.

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.