

## W-TERM CVA 665 GRAFITE 500°C

**PRODUCT DESCRIPTION:** Single-component modified silicone-based topcoat. Heat resistant up to 500 °C (932°F). It can be applied directly to carbon steel.

**RECOMMENDED USES:** Recommended for coating chimneys, furnaces, boilers, heat exchangers, pipes or other equipment that operate at temperatures:  
 150 - 300°C (302 - 572°F) - continuous  
 300 - 400°C (572 - 752°F) - periods of up to 24 hours  
 400 - 500°C (752 - 932°F) - periods of up to 1 hour  
 Out of the temperature and time ranges above, the product may present staining, loss of layer or changes in the film.

**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
	Monocomponent	3,6 20	3,6 20	L

CHARACTERISTICS:							
<b>Color:</b>	Graphite						
<b>Gloss:</b>	Matte						
<b>Volume solid:</b>	35 ± 2% (ISO 3233).						
<b>Shelf-Life:</b>	12 months at 25°C						
<b>Thickness per coat (dry):</b>	20 µm –30 µm						
<b>Theoretical coverage:</b>	14,01 m <sup>2</sup> /l without dilution in the thickness of 25 µm dry. Without considering loss factors in application.						
<b>Resistance to dry heat:</b>	Maximum temperature 500 °C . The product retains its physical and chemical properties up to the temperature of 500 °C however, variations in the coating color and gloss may occur from 150 °C (302°F).						
<b>Drying:</b>							
	<table border="1"> <thead> <tr> <th>10 °C</th> <th>25°C</th> <th>35 °C</th> </tr> </thead> <tbody> <tr> <td>2 hours</td> <td>40 minutes</td> <td>35 minutes</td> </tr> </tbody> </table>	10 °C	25°C	35 °C	2 hours	40 minutes	35 minutes
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<b>Handling:</b>							

**NOTE:** For equipment operating below 150 °C (302°F), it is necessary a pre-cure of 30 minutes at 180 °C (356°F).

**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.

### Surface treatment by Degreasing with solvents

Completely remove oil from the surface with clean cloths soaked in cleaning solvent according to SSPC SP1. Whenever cleaning a surface with cloths, replace them to avoid saturation. Do not use cotton waste or colored cloths.

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

## PREPARATION FOR APPLICATION

### Mixture

Homogenize the contents of the package by means of mechanical or pneumatic agitation. Ensure that no sediment is settled at the bottom of the package.

### Diluent

**Alkydic diluent 1024**

### Dilution

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

### Pot life of the mixture (25°C)

Not relevant

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.

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:	15%

### 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.

### Roller:

Not recommended.

**NOTE:** For application by cutting it may be necessary to apply two or more passes to obtain a uniform layer according to the film thickness recommended by others.

### Cleaning the equipment:

Alkydic diluent 1024

## NOTE:

Do not leave material in the hoses, spray guns and equipment used in the spraying. Thoroughly wash all equipment used.

## 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.

We recommend coating only if the surface temperature is at least 3°C (37,4°F) 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°C - 27 °C (69.8°F - 80.6 °F) 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.

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

For equipment operating below 150 °C (302°F), it is necessary a pre-cure of 30 minutes at 180 °C (356°F).

Full cure is achieved when the equipment goes into operation reaching a temperature above 150°C (305°F).

The maximum performance of the product is obtained when the painted equipment starts operating at a temperature of 180°C (356 °F) to 230°C (446 °F). It is recommended to raise this temperature slightly.

The adhesion test can only be performed after the film has completely cured.

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.

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