



## PRODUCT DATA SHEET

# WE-9200

## Profile Resurfacer – Wind Energy

### GENERAL DESCRIPTION

**WE-9200** is an easy-to-use, fast set, 2-component epoxy putty repair material. It is specifically designed to fill in pits, defects, or any irregularity in the surface of wind turbine blades. This self-priming material ensures excellent adhesion and provides an easy to sand, smooth finish.

### FEATURES

- Environmentally friendly, Zero VOC coating system
- Excellent adhesion any type of composite blades.
- Tack-free in 30 minutes at 70 °F, allowing for quick turnarounds
- Designed for superior longevity with excellent flexibility and impact resistance
- Cured putty is easy to sand to provide a smooth, uniform finish.

### PACKAGING

600 mL Dual cartridge caulk tubes

### COVERAGE

**WE-9200** has the consistency of creamy putty and can be applied up to 1250 mils per coat. Theoretical coverage depends on the quantity and depth of erosion.

### MIXING RATIO

1.3 parts base (B) to 1 part (A) hardener by weight  
1 parts base (B) to 1 part (A) hardener by volume

### POT LIFE

For material mixed from a dual cartridge caulk tube at 70°F, pot life is approximately 5 - 10 minutes. Higher temperatures or larger mass will shorten this time, lower temperatures or smaller mass will extend it. Pot life can also be extended by spreading the mass out to dissipate heat.

### COLORS

**WE-9200** is available in light grey and red. This coating has moderate UV stability and is not designed as a top coat.

### TECHNICAL DATA AND INFORMATION

#### Physical Properties of Cured System:

Density	1.27 g/mL
% Solids	100
Flexural Strength @ 70°F	19,200 psi
Tensile Strength @ 70°F	11,100 psi
Tensile Shear @ 70°F	3,500 psi
Adhesion (Fiberglass)	>2000 psi
Adhesion (Aluminum)	>2000 psi
Abrasion Resistance <sup>1</sup>	52.7 mg lost
Impact Resistance	158 in lbs
Hardness	82 – 79 Shore D

<sup>1</sup> ASTM D 4060 Taber Abrasion Test, CS 17 wheel with 1 kg weight. Weight lost per 500 cycles.

### SURFACE PREPARATION

- For maximum adhesion, material should be applied to a firm, clean, dry and abraded surface.
- Best results will be obtained by sanding the surface and removing any previous coatings.
- Clean greasy, oily or waxed surfaces with suitable solvent before applying material.

### MIXING

For standard kits mix ALL of Part A with ALL of Part B. Pour Part A into Part B bucket and mix for 5 minutes while scraping down the sides. Duromar recommends boxing material to ensure adequate mixing.

### CLEANUP

Most solvents and commonly used thinners such as MEK, acetone and xylene can be used for cleaning tools and equipment. Duromar also supplies a non-flammable, non-hazardous safety solvent **Duromar T-1** which can be used. **DO NOT USE TO THIN MATERIAL FOR APPLICATION.**



## APPLICATION

**WE-9200** is best applied by plural component airless spray or by hand with a roller or brush.

- Min. Thickness/Coat (mils) 5
- Max. Thickness/Coat (mils) 125
- Number of Coats 1-2
- Min. Application Temperature (°F) 50

For best results, do not apply:

- When humidity is over 90%
- When there is moisture on the surface
- When surface temperature is not 5 °F above dew point

## OVERCOATING

For thicker coating and repairs, two or more coats may be employed. **WE-9200** can be overcoated with most Duromar high performance materials. In high humidity or cold temperatures a blush may develop which should first be wiped down with clean water. The following table is an approximate guide to the earliest and latest times an overcoat may be applied:

### **WE-9200 Overcoating Window:**

55°F	70°F	85°F
2 - 48 hrs.	30 min. - 24 hrs.	20 min. - 18 hrs.

At 70 °F, if 24 hours have elapsed the surface must be roughened before overcoating. The preferred method is a light abrasive brush blasting, light sanding, grinding or wire brushing.

## CURING SCHEDULE

Temperature	50 °F	70 °F	90 °F
<b>Dry to Touch</b>	60 minutes	30 minutes	15 minutes
<b>Functional Cure</b>	4 hours	1 hours	30 minutes
<b>Full Cure</b>	48 hours	6 hours	12 hours

## Q/C

The material should be visually inspected just after application and touched up where necessary.

## STORAGE/SHELF LIFE

Store in dry area in closed containers between 50 °F and 100°F. Shelf life at these conditions is greater than one year.

## HEALTH AND SAFETY

READ AND UNDERSTAND ALL MATERIAL GIVEN IN THE MSDS SHEETS BEFORE USING THE PRODUCT.

**WE-9200** DOES NOT CONTAIN ANY FLAMMABLE MATERIAL OF ANY KIND. HOWEVER, THE MATERIAL IS COMBUSTIBLE. IN THE EVENT OF A FIRE, DRY POWDER, FOAM, OR CARBON DIOXIDE FIRE EXTINGUISHERS SHOULD BE USED. FIRE FIGHTERS SHOULD WEAR RESPIRATORS.

USE PROTECTIVE GLOVES AND EYEGLASSES WHEN USING.

USE IN AREAS OF GOOD VENTILATION.

## LIMITED WARRANTY

All recommendations covering the use of this product are based on past experience and laboratory findings. Methods or conditions of application and use of the product are beyond our control. We assume responsibility only for the uniformity of our product within normal manufacturing balances.

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