

# BladeRep® LEP 9

Technical Data Sheet:  
442-99/ BR9XXX

## 1. Introduction

ALEXIT® BladeRep® LEP 9 is specifically designed to protect leading edge areas where a coating with excellent abrasion and erosion resistance is required. This two-component, solvent free polyurethane product has superior elasticity and flexibility for long-term leading edge protection.

## 2. Range of application

ALEXIT® BladeRep® LEP 9 is used for extra protection on highly stressed areas like leading edges of wind turbine rotor blades. This product is designed to be applied either under ALEXIT® BladeRep® Topcoat 12 as a complete system or as the final finish to provide erosion resistance. The use of different colors in a 3-layer set-up allows for a visual inspection of the surface from a distance to determine if damage is present (MSI- Maintenance Service Indicator).

## 3. Color

ALEXIT® BladeRep® LEP 9 is available in red, white and grey (RAL 7035). This product dries to a glossy finish.

## 4. Coverage

	m <sup>2</sup> /kg	sq.ft. / kg	m <sup>2</sup> /kit*	sq.ft./ kit*	sq.ft./ gal
<b>Theoretical coverage at 200 µm / 8 mil</b>	<b>3</b>	<b>30</b>	<b>1.0</b>	<b>10</b>	<b>160</b>
<b>300 µm / 12 mil</b>	<b>2</b>	<b>20</b>	<b>0.6</b>	<b>6</b>	<b>100</b>
<b>approx. of mixed material</b>					

\* Kit is available in separate units of 0.2 kg base and 0.135 kg hardener

### Recommended Dry Film Thickness:

3 layers LEP 9: 300 µm (12 mil)

2 layers LEP 9: 200 µm (8 mil)

**5. Substrate pre-treatment** Sand the surface with 120 grit paper prior to applying ALEXIT® BladeRep® LEP 9. The surface must be clean, dry and free from dust, grease, oil and other contaminants. ALEXIT® BladeRep® LEP 9 may be applied over all BladeRep® products and/or any properly prepared surface.

## 6. Trade names/part no.

Base material	BR903K	ALEXIT® BladeRep® LEP 9 (red)
	BR9091	ALEXIT® BladeRep® LEP 9 (white)
	BR9075	ALEXIT® BladeRep® LEP 9 (RAL 7035 grey)
Hardener	BR90H0	ALEXIT® BladeRep® Hardener 9

## 7. Mixing ratio for mid-size and large units:

Mix by Volume:	10 Parts	ALEXIT® BladeRep® LEP 9
	7 Parts	ALEXIT® BladeRep® Hardener 9
Example:	10:7	
Mix by Weight:	2 Parts	ALEXIT® BladeRep® LEP 9
	1 Part	ALEXIT® BladeRep® Hardener 9
Example:	2:1	

**For small containers:** Mix entire hardener into base material and mix thoroughly.

For all package sizes: Mix thoroughly for proper curing.

**For Professional Use Only**

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The information contained in this data sheet is based on our level of research and development. Revisal by the user with regard to the intended aim is necessary due to the diverse processing and application possibilities.

# BladeRep® LEP 9

## 8. Application

Apply by brush or roller only

Application conditions:

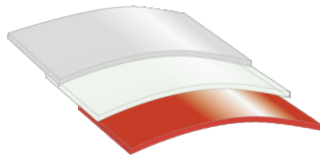
15-32 °C (60-95 °F) and 20-70 % relative humidity. The minimum application condition should be 3 °C (5.4 °F) above dew point.

By use out of the above mentioned conditions, please consult your ALEXIT® BladeRep® representative.

Application process for

Apply 3 layers of ALEXIT® BladeRep® LEP 9 (MSI\*) to a wet film thickness (WFT) of 100 – 125 brushing / rolling: µm (4 - 5 mils) each. Allow a flash-off time according to the table below between each coat before applying the next coat. Before applying the next layer the surface needs to be matted with Scotch Brite red followed by cleaning with dust binding cloth.

\*MSI:  
1<sup>st</sup> layer: „red“  
2<sup>nd</sup> layer: „white“  
3<sup>rd</sup> layer: „grey (RAL 7035)“



If applying by roller a short nap foam roller is recommended.

The use of a three line masking technique by staggering the second tape line 1/8" (3 mm) to the first and the third 1/8" (3 mm) to the second to create stepdowns, you will be able to reduce the tape edge when removing layer of tape between applications.

If over coating the leading edge with ALEXIT® BladeRep® Topcoat 12 is required 2 layers LEP 9 are necessary. The application process remains unchanged. Before applying Topcoat 12 the surface also needs to be matted and cleaned. For further information how to process Topcoat 12, please see Technical Data Sheet for Topcoat 12.

## 9. Pot life

10 - 15 min at 23 °C (73 °F)

## 10. Drying time

	15 °C (60 °F)	23 °C (73 °F)	30 °C (86 °F)
For brushing / rolling			
With ALEXIT® BladeRep® LEP 9 over itself	60 min	45 min	30 min
With ALEXIT® BladeRep® Topcoat 12	2 h	1 h	45 min

## 11. Packaging

ALEXIT® BladeRep® LEP 9  
ALEXIT® BladeRep® Hardener 9

12 kg, 4 kg, 0.2 kg, 1 US Gallon  
6 kg, 2 kg, 0.135 kg, 0.7 US Gallon

## 12. Storage

Store in original, unopened containers at a temperature of 5 – 35 °C (41 – 95 °F)  
(in acc. with DIN EN 3840:2007).



Approved by Germanischer Lloyd in combination with  
ALEXIT® BladeRep® Profile Filler 3, Pore Filler 6 and Topcoat 12 (WP1120007 HH)

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