

# BladeRep® Topcoat 14

## 1. Introduction

ALEXIT® BladeRep® Topcoat 14 is designed specifically for coating blades where a superior product with chemical, UV, abrasion and mechanical resistance is required. This two-component polyurethane topcoat meets or exceeds OEM standards and provides applicators with the ideal product for blade repairs.

## 2. Range of application

ALEXIT® BladeRep® Topcoat 14 is designed as a final topcoat on wind turbine rotor blades. The material is very elastic and has good chemical resistance values. It can be applied by roller on spot repairs, or as a final coating over the entire surface of a blade.

## 3. Color

ALEXIT® BladeRep® Topcoat 14 is available in standard factory packaged colors matching standards of OEM turbine blade manufacturers.

## 4. Coverage

	m <sup>2</sup> /kg	sq.ft./ kg	m <sup>2</sup> /kit	sq.ft./ kit
<b>Theoretical coverage at 60 µm / 2.3 mil DFT approx. of mixed material</b>	<b>8</b>	<b>86</b>	<b>4</b>	<b>43</b>

**Recommended dry film thickness: 60 (± 10) µm (2.3 mil).**

## 5. Substrate pre-treatment

Sand the surface with 120 grit paper prior to applying ALEXIT® BladeRep® Topcoat 14. The surface must be clean, dry and free from dust, grease, oil and other contaminants. Topcoat 14 may be applied over all ALEXIT® BladeRep® filling products and/or on properly prepared surfaces.

## 6. Trade names

Base material: ALEXIT® BladeRep® Topcoat 14  
Hardener: ALEXIT® BladeRep® Hardener 14

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

Mixing by volume:	3 Parts	ALEXIT® BladeRep® Topcoat 14
Ratio: 3:1	1 Part	ALEXIT® BladeRep® Hardener 14
Mixing by weight:	4 Parts	ALEXIT® BladeRep® Topcoat 14
Ratio: 4:1	1 Part	ALEXIT® BladeRep® Hardener 14

For kits:

Puncture the hardener's black compartment lid and bottom (4cm below) with a pointy tool and wait for the entire hardener to empty into the base material. Take off empty hardener container from kit and mix base and hardener thoroughly.

For all package sizes:

Mix thoroughly to ensure proper curing!

**For Professional Use Only**

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## 8. Application

Application conditions: 5-35 °C (41-95 °F) temperature and 20-85 % relative humidity. The minimum application condition should be 3 °C (5.4 °F) above dew point.

Roller: High quality solvent resistant foam rollers. Long-hair rollers are not recommended.

Application process for rolling: Apply one coat of ALEXIT® BladeRep® Topcoat 14 to a wet film thickness (WFT) of 90 (±10) µm (3.5 mils). The total dry film thickness (DFT) should be approx. 60 (±10) µm (2.3 mils).

For all color shades except RAL 7035 "Light Grey", applying a second layer is required to ensure proper hiding power.

**After application of ALEXIT® BladeRep® Topcoat 14, no additional process is required before the blade can be put into operation. Before taking the turbine into operation, ALEXIT® BladeRep® Topcoat 14 needs time to cure thoroughly. The curing time depends on environmental conditions.**

9. Pot life 15 min at 23 °C (73 °F)

10. Drying time Drying time at 23°C approx. 3,5 hours. Drying time will vary depending on ambient temperature conditions.

11. Packaging ALEXIT® BladeRep® Topcoat 14 0,5 kg kit\* and 4 kg bucket  
ALEXIT® BladeRep® Hardener 14 1 kg canister

\*Kit contains 0.4 kg base material and 0.1 kg hardener and is premeasured for the proper mixing ratio.

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

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