

BladeRep® Profile Filler 3K

Technical Data Sheet:
491-3K / BR3K73

1. Introduction

ALEXIT® BladeRep® Profile Filler 3K is a solvent free, three-component, fast drying polyurethane filler designed to be used for filling and fairing on GRP substrates.

2. Range of application

ALEXIT® BladeRep® Profile Filler 3K is designed for filling and repairing non-structural imperfections on wind turbine rotor blades. It can be used instead of 2-Component ALEXIT® BladeRep® Profile Filler 3 when faster drying is necessary.

3. Color

ALEXIT® BladeRep® Profile Filler 3K is available in Grey. The corresponding hardener is black and the activator is green.

4. Coverage

Coverage of ALEXIT® BladeRep® Profile Filler 3K depends on the depth of filling required as well as on the area of surface to be faired.

	m ² /kg	sq.ft. / kg	sq.ft./ gal
Theoretical coverage at 500 µm / 20 mil approx. of mixed material	1.2	13	88

5. Substrate pre-treatment Sand the surface with grit 120 prior to applying ALEXIT® BladeRep® Profile Filler 3K. The surface must be clean, dry and free from dust, grease, oil and other contaminants.

6. Trade names/part no.

Base material	BR3K73	ALEXIT® BladeRep® Profile Filler 3K
Hardener	BR3KH2	ALEXIT® BladeRep® Hardener 3K
Activator:	BR3KA7	ALEXIT® BladeRep® Activator 3K

7. Mixing ratio For mid-size and large units:

Mix by Volume:	100 Parts	ALEXIT® BladeRep® Profile Filler 3K	BR3K73
	40 Parts	ALEXIT® BladeRep® Hardener 3K	BR3KH2
Activator:	0.3 – 3%	ALEXIT® BladeRep® Activator 3K	BR3KA7

Example: 100 : 40 : 1.4 for 1% of Activator.

Mix by Weight:	4 Parts	ALEXIT® BladeRep® Profile Filler 3K	BR3K73
	1 Part	ALEXIT® BladeRep® Hardener 3K	BR3KH2
Activator*:	0.3 – 3%	ALEXIT® BladeRep® Activator 3K	BR3KA7

Example: 4:1:0.05 for 1 % of Activator.

Mixing steps:

1. Mix Base and Hardener thoroughly.
2. Pour activator in adequate ratio and stir until getting homogenous mixture.

For all package sizes:

Mix thoroughly for proper cure!

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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.

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8. Application

Application conditions: 15-35 °C (60-95 °F) and 20-85% relative humidity. The minimum application condition should be 3 °C (5.4 °F) above dew point.

If applying the product in conditions which are not listed above, please consult your ALEXIT® BladeRep® representative.

Application process: Apply ALEXIT® BladeRep® Profile Filler 3K as needed. Do not exceed 3/8" (5mm) film thickness with this product. After the surface is faired and smooth, you may proceed to the ALEXIT® BladeRep® LEP9, LEP10 or ALEXIT® BladeRep® Topcoat 12. If the surface has imperfections, such as pin holes, use ALEXIT® BladeRep® Filler 6 to achieve a defect-free smooth surface. Before using next material, the profile filler has to be sanded properly.

9. Pot life

5 – 10 minutes depending on amount of ALEXIT® BladeRep® Activator 3K, see table below.

Temperature:	10 °C (50 °F)	23 °C (73 °F)	30 °C (86 °F)
% ratio of Activator 3K for a pot life of 5 - 10 minutes	3%	1%	0.3%

Remark: Pot life of only mixed base and hardener is > 8 h at 23 °C (73 °F). Use of Activator is mandatory to achieve chemical linkage of material.

Example: 4:1: 0.05 for 23 °C (73 °F)

*** Do not exceed the recommended amount of activator**

10. Drying time

Material with a pot life of 5 - 10 minutes: sandable after approx. 1 hour

11. Packaging

ALEXIT® BladeRep® Profile Filler 3K	20 kg, 4 kg and 1 US Gallon
ALEXIT® BladeRep® Hardener 3K	5 kg, 1 kg and 1 US Quart
ALEXIT® BladeRep® Activator 3K	1 kg

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 DNV in combination with
ALEXIT® BladeRep® Profile Filler 3, Pore Filler 6, LEP 9 and Topcoat 12 (TA-GL-II-2-05377-0)

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