

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 drving 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.

	m²/kg	sq.ft. / kg
Theoretical coverage at 500 µm / 20 mil approx. of mixed material	1.2	13

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 contaminates.

6. Trade names/part no. ALEXIT® BladeRep® Profile Filler 3K Base material BR3K73

ALEXIT® BladeRep® Hardener 3K Hardener BR3KH2 ALEXIT® BladeRep® Activator 3K BR3KA7 Activator:

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

Mix by Volume: 100 Parts ALEXIT® BladeRep® Profile Filler 3K **BR3K73**

> ALEXIT® BladeRep® Hardener 3K 40 Parts 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 BR3KH2

ALEXIT® BladeRep® Hardener 3K ALEXIT® BladeRep® Activator 3K Activator*: 0.3 - 3%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 homogenous mixture is achieved.

For all package sizes: Mix thoroughly for proper cure!

8. Application

For Professional Use Only

Page 1 of 2

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.

www.bladerep.com Revision January 2024



BladeRep® Profile Filler 3K

Technical Data Sheet: 491-3K / BR3K73

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 5 or 7 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	23 °C	30 °C
	(50 °F)	(73 °F)	(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)

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

11. Packaging ALEXIT® BladeRep® Profile Filler 3K 20 kg and 4 kg ALEXIT® BladeRep® Hardener 3K ALEXIT® BladeRep® Activator 3K 5 kg and 1 kg

 $0.5 \, \text{kg}$

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)

For Professional Use Only

Page 2 of 2

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.

www.bladerep.com Revision January 2024

^{*} Do not exceed the recommended amount of activator