

**Declaration of Performance****LE/DoP-No. MB2028/002-1119**

- |   |   |
|---|---|
| 1. Product name                                     | Byggfog ESS 1 semitransparent   |
| 2. Type of product                                  | 1 component MS hybrid polymer   |
| 3. Application                                      | Sealant for the application in facades, glazing, sanitary and wet area joint and pedestrian walkways<br>Type F EXT-INT 20HM<br>S XS1<br>PW EXT-INT CC 20HM<br>Conditioning: Method B<br>Substrate: anodised aluminium and grout M1<br>Pre-treatment with Adhesion Promoter V40 (aluminium) and V17 (grout M1) |
| 4. Manufacturer                                     | merz+benteli ag<br>Freiburgstrasse 616<br>CH-3172 Niederwangen  |
| 5. Representative                                   | -   |
| 6. System of assessment of constancy of performance | 3 plus 3  |
| 7. Harmonised Standard                              | EN 15651-1: 2012-12, EN 15651-2; 2012-12, EN 15651-3: 2012-12, EN 15651-4: 2012-12  |
| 8. Notified body                                    | ift Rosenheim GmbH, NB 0757, as notified laboratory in system 3, performed the initial test and issued the test report.   |
| 9. Essential characteristics                        |   |

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	Class E	EN 15651-1: 2012-12, EN 15651-2; 2012-12, EN 15651-3: 2012-12, EN 15651-4: 2012-12
Release of chemicals dangerous to the environment and health	evaluated	
Water tightness and air tightness		
a) Resistance to flow	≤ 3 mm	
b) Loss of volume	≤ 10 %	
c) Tensile properties at maintained extension after water immersion	NF	
d) Tensile properties at maintained extension	NF	
e) Tensile properties at maintained extension at -30°C	NF	
f) Tensile properties (secant modulus / elongation at break)	> 0.4 MPa	
g) Tensile properties (secant modulus) at -30°C	NPD	
h) Adhesion/cohesion properties at maintained extension after 28 days water immersion	NF	
i) Adhesion/cohesion properties at maintained extension after 28 days salt water immersion	NF	
j) Microbiological growth	1	
k) Tear resistance	NF	
l) Durability	pass	

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:



Fritz Burkhardt  
Head of Research & Development



Simon Bienz  
Chief Marketing & Sales Officer

Niederwangen, 25 November 2022



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merz+benteli ag  
 Freiburgstrasse 616  
 CH-3172 Niederwangen  
 Schweiz

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MB2028/002-1119

EN 15651-1  
 EN 15651-2  
 EN 15651-3  
 EN 15651-4

1 component MS hybrid polymer  
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 and pedestrian walkways

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- Conditioning: Method B
- Substrate: anodised aluminium and grout M1
- Pre-treatment: Adhesion Promoter V40 (aluminium) and V17 (grout M1)

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g) Tensile properties (i.e. secant modulus) at -30°C	NPD
h) Adhesion/cohesion properties at maintained extension after 28 days water immersion	NF
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j) Microbiological growth	1
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EN 15651-1, -2, -3, -4  
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