

DECLARATION OF PERFORMANCE

1. Unique identification code of the product-type:

TWEHA GlassMate

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11 (4):

The batch number is indicated on the product's label and/or packaging.

3. Intended use of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Bonding material used in a system to install internal and external wall cladding with all kind of glass panels, etc..

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11 (5):

TcB

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Chamber of Commerce 56565860 - RSIN 852189187

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4. Authorized representative

Not applicable.

5. Function

TWEHA 90-nine is intended to provide one or more of the following functions, depending on the application:

- **bonding;**
- **mounting;**
- **airtight sealing;**
- **moisture-resistant sealing;**
- **protective coating;**
- **elastic filling of seams and connections;**
- **repair of building and industrial components;**
- **protection against environmental and mechanical influences.**

The product is sprayable and brushable and can therefore be applied over continuous surfaces and irregular geometries where conventional bead-applied products may be less practical.

TWEHA 90-nine contains no isocyanates, solvents or silicones and cures to a permanently elastic hybrid polymer.

6. Assessment and verification of constancy of performance

Not applicable.

No specific AVCP system is declared for TWEHA 90-nine as a standalone sprayable adhesive, sealing and protective product.

7. Harmonized technical specification / European Technical Assessment

Not applicable.

No harmonized European product standard or European Technical Assessment applicable to TWEHA 90-nine for the intended applications stated in this declaration is referenced.

This document shall therefore not be interpreted as a Declaration of Performance for CE marking under the Construction Products Regulation.

8. Declared product characteristics

Characteristic	Declared performance
Chemical basis	Hybrid Polymer
Curing mechanism	Moisture curing
Density	Approx. 1.56 g/ml
Skin formation time at 23°C / 55% RH	Approx. 16 min
Curing rate at 23°C / 55% RH	Approx. 2 mm / 24 h
Shrinkage	Negligible
Permissible deformation	25%
Shore A hardness	Approx. 40
Modulus at 100% elongation	Approx. 0.75 MPa
Tensile strength	Approx. 1.20 MPa
Elongation at break	Approx. 400%
Temperature resistance after full cure	-40°C to +100°C
Application temperature	+5°C to +40°C
Airtightness	From approx. 2 mm layer thickness
Vapor-tightness	From approx. 4 mm layer thickness
Recommended minimum application thickness	4 mm
Paint ability	Suitable for commonly used coating systems, subject to compatibility testing
UV and weather resistance	Suitable for intended use
Structural load-bearing performance	Not declared

9. Application requirements

The substrate shall be:

- clean;
- dry;
- stable;
- compatible with the product;
- free from dust;
- free from grease, oil and other contaminants;
- free from loose or poorly adhering particles.

Loose particles shall be removed mechanically before application.



TWEHA 90-nine has a broad adhesion spectrum. Nevertheless, adhesion and material compatibility shall always be verified where the substrate or application has not previously been approved by TWEHA.

The application temperature of both substrate and environment shall be approximately +5°C and +40°C.

For sealing and coating applications, TWEHA 90-nine shall be applied without air inclusions.

Where a continuous sealing layer is required, a minimum application thickness of approximately 4 mm shall be observed unless another thickness has been specifically prescribed by TWEHA.

10. Application method

TWEHA 90-nine can be applied using a suitable compressed-air spray gun and may subsequently be structured or smoothed using a suitable brush or roller.

Application shall take place before skin formation.

For spray application, air pressure, nozzle configuration and output shall be adjusted to achieve a homogeneous, continuous and air-free layer.

The applied product shall be protected against contamination and mechanical disturbance until sufficient curing has occurred.

The curing rate depends on:

- **temperature;**
- **relative humidity;**
- **layer thickness;**
- **substrate;**
- **accessibility of atmospheric moisture.**

11. Airtight and vapor-tight applications

When applied correctly and continuously, the underlying product documentation declares:

Airtight from approximately 2 mm layer thickness.

Vapor-tight from approximately 4 mm layer thickness.

Where TWEHA 90-nine is used as part of a building-envelope airtightness or moisture-control concept, the complete connection and substrate combination shall be designed and applied accordingly.

A declared material property shall not automatically be regarded as proof of the airtightness or vapor-tightness of the complete building connection.

12. Limitations

TWEHA 90-nine: shall not be regarded as a structural façade-panel adhesive unless expressly approved for that application;

- **is not intended for permanent water immersion;**
- **is not intended as a conventional expansion-joint sealant;**
- **shall not be used on unsuitable or unstable substrates;**
- **shall not be applied to PE, PP or PTFE without specific approval;**
- **requires prior assessment on sensitive plastics and other difficult-to-bond surfaces;**
- **shall not be assumed compatible with every paint, coating or substrate without testing;**
- **does not compensate for inadequate substrate strength or incorrect construction detailing.**



TWEHA excludes or restricts use on materials including PE, PP, PTFE, PC, PMMA, soft plastics, neoprene, bituminous substrates and natural stone, unless suitability has been established separately.

13. Durability and substrate compatibility

The durable performance of TWEHA 90-nine depends on the complete combination of: substrate + surface condition + TWEHA 90-nine + application thickness + environmental exposure

Where the product is used for bonding applications, initial adhesion alone should not be considered sufficient evidence of long-term suitability.

For applications involving permanent loads, demanding exterior exposure or safety-relevant bonding, TWEHA may require adhesion and durability testing of the actual substrate combination before approval.

Changes in substrate composition, coating, production process or surface treatment may influence adhesion and shall be assessed accordingly.

14. Storage

In unopened original packaging, TWEHA 90-nine shall be stored in a cool and dry environment between approximately:

+5°C and +25°C

Under these conditions the underlying product has a stated shelf life of up to:

15 months from production date.

Refer to the product label for the applicable batch-specific expiry date.

15. Declaration

The product identified above is supplied in conformity with the characteristics stated in this declaration and the applicable TWEHA technical documentation.

When correctly applied, TWEHA 90-nine provides a sprayable and brushable, permanently elastic solution for bonding, mounting, sealing, protecting and repairing suitable building and industrial components.

The performance and durability of the application depend on, amongst other factors:

- **substrate type and condition;**
- **surface preparation;**
- **product compatibility;**
- **applied layer thickness;**
- **environmental conditions;**
- **application technique;**
- **curing conditions;**
- **expected movement and mechanical loading; and**
- **installation in accordance with the applicable TWEHA Technical Data Sheet and**

Instructions for Use.

For safety-relevant or load-bearing bonding applications, suitability shall be established separately and approved by TWEHA.

This declaration is issued under the sole responsibility of the organization identified in section 3.



Signed for and on behalf of the manufacturer by:

Lommel, August 1, 2023

M.J.P. van Leeuwen, General Director

Annex to the declaration of performance in accordance with Article 6(5) of Building Regulation and the REACH Regulation No. 1907/2006, Article 31 or 33

- 1 (31) Material safety data Sheet (MSDS): available on www.tweha.com
- 2 (33) information on substances of very high concern (SCHC): inapplicable