

MATIZOL ELITE TIXO

LIQUID MEMBRANE FOR ROOFING DETAILS

1. PRODUCT DESCRIPTION

Thixotropic, hybrid, liquid roofing membrane for vertical surfaces and workpiece work. It is also suitable for levelling grouts (up to a depth of 1 mm) on substrates covered with ceramic tiles and porcelain stoneware, before applying **MATIZOL ELITE TECH**. The unique combination of resins allows the coating to be applied under extreme conditions, at temperatures from 0°C to +45°C, and is resistant to ponding water. Thanks to its high vapour permeability (SD 1), it can be applied on wet and damp substrates and on surfaces under which moisture is accumulated. At 20°C, it is resistant to rain after just 2 hours from application. The high adhesion makes it unnecessary to use a primer and its density makes it simple and easy to apply on vertical surfaces. In the application of the **MATIZOL ELITE TECH** system, a single layer is sufficient. **MATIZOL ELITE TIXO** has nearly 100% solid content, thanks to which the applied thickness of the coating does not change during drying.



2. BENEFITS

- APPLICATION FROM 0°C TO +45°C
- WET SUBSTRATE APPLICATION (SD 1)
- HIGH ADHESION TO VERTICAL SURFACES

3. APPLICATION AREA

MATIZOL ELITE TIXO is designed for application on vertical surfaces and for processing details both in the **MATIZOL ELITE DECK** and **MATIZOL ELITE TECH** systems, as well as a stand-alone coating for roofing in the case of waterproofing surfaces made of other materials. **MATIZOL ELITE TIXO** can also be used for linear protection of joints in the renovation of terraces and balconies made of ceramic tiles and porcelain stoneware.

4. SUBSTRATES

- Concrete and cement screeds
- Bituminous membrane
- Ceramic tiles
- Cement tiles
- Stoneware
- Metal*

*For metal surfaces, always perform a test application to verify final adhesion

5. SUBSTRATE PREPERATION

Thoroughly clean the substrate on which the application is to be performed. Remove dust and loose parts of the substrate. Fill in the gaps.

CONCRETE SUBSTRATE

Due to the very high adhesive parameters, the concrete substrate must be load-bearing and have adequate compressive strength (min. 25 MPa). The pull-off test result should be ≥ 1.5 MPa. The substrate must be clean and free from substances that impair adhesion, such as dust, cement laitance, oils, coatings, surface treatment agents, loose particles, etc.

SUBSTRATE PREPARATION

Fill cavities, voids, and cracks (as described in section 6. APPLICATION METHOD – Expansion Joints). Weak areas of the substrate should be removed during surface- preparation. The surface can be prepared using abrasive blasting or milling methods to remove cement laitance. Larger irregularities should be removed by grinding. The substrate must be thoroughly vacuumed with an industrial vacuum cleaner. Repairs of the substrate, including filling voids, cavities, and uneven areas, should be done using appropriate mineral materials. In case of any questions or doubts, please contact our Technical Department.

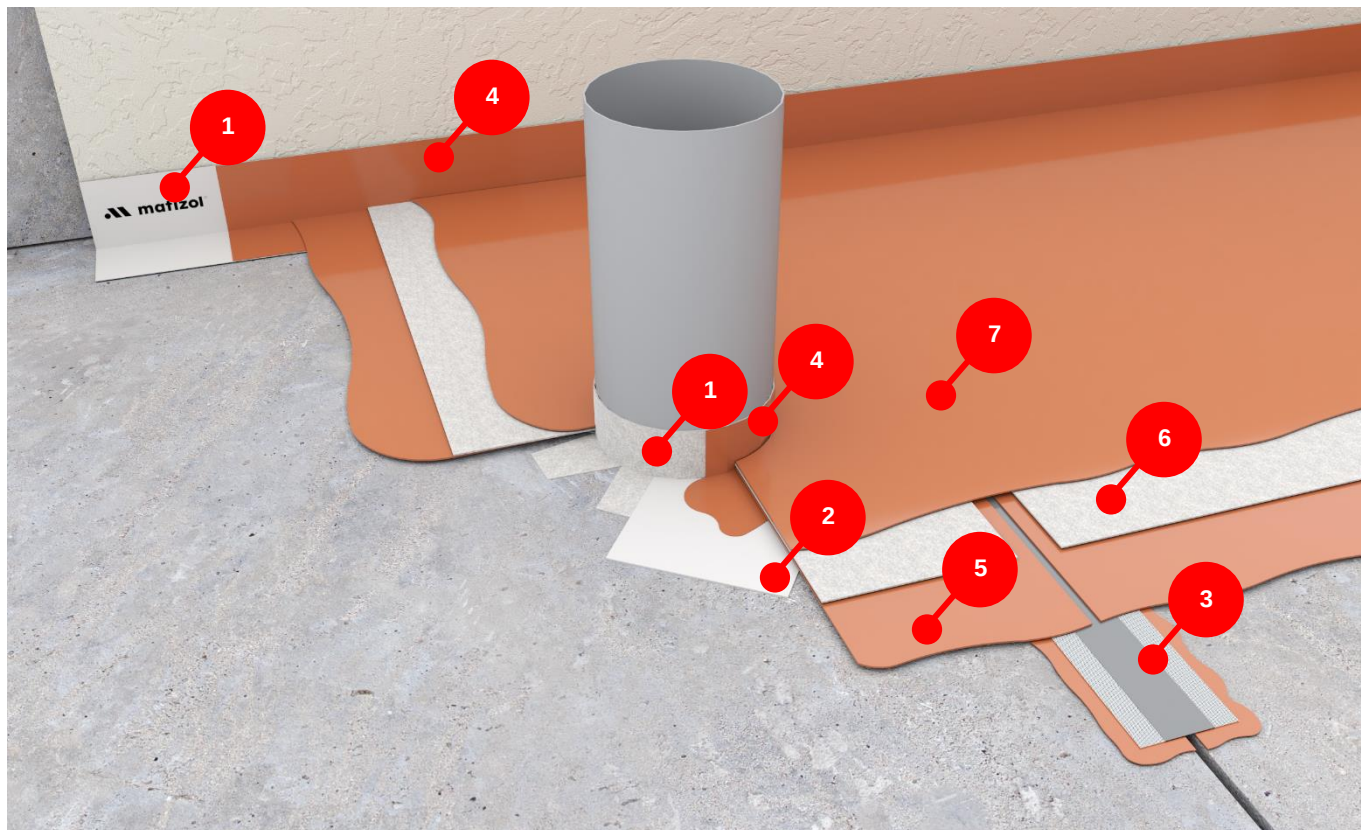
BITUMINOUS SUBSTRATE

The surface of the bituminous felt must be dry and free from any contaminants. Loose elements, including granules, moss, and lichens, should be removed. Delamination must be adhered, and cracks and voids should be filled using repair compounds, such as **MATIZOL EVOMER FAST-FIX**. Larger irregularities should be mechanically removed to ensure the even application of the coating.

6. APPLICATION

To ensure proper pigmentation throughout the product, it should be thoroughly mixed using a mechanical mixer, keeping the speed low to prevent air from being introduced into the product. **MATIZOL ELITE TIXO** is ready to use and does not require priming or a protective topcoat. Apply **MATIZOL ELITE TIXO** using a metal trowel (on smooth surfaces), a flat brush, a short-nap roller, or an airless spray gun, such as the Graco Mark V air-assisted sprayer with a G40 spray gun and a 0.21" nozzle. The working pressure should be around 200 bar, but it must always be adjusted optimally to suit the prevailing weather conditions. For more information, please contact the SELENA Technical Department.

Illustration 1. Application and work on the details in the **MATIZOL ELITE TECH** system



1. MATIZOL CORNER TAPE PP-BUTYL
2. MATIZOL COLLAR PP-BUTYL
3. MATIZOL JOINT TAPE PV-ELAST
4. MATIZOL ELITE TIXO
5. First layer MATIZOL ELITE TECH / MATIZOL ELITE DECK
6. MATIZOL MAT PP 90g /m²
7. Second layer MATIZOL ELITE TECH / MATIZOL ELITE DECK

CONSUMPTION

350 - 400 g/m² in single coat on vertical surfaces

300 g/m² in one layer for grouting

RAINPROOF TIME CHART

Application Temperature	Rain resistance
20°C	2 h
15°C	2 h 30 minutes
10°C	3 h
5°C	4 h
0°C	5 h

Selena FM S.A.

ul. Legnicka 48A, 54-202 Wrocław, Poland

tel. +48 71 78 38 290, e-mail: office@selena.com, www.selena.com

WARNING

Do not use the product if its packaging is damaged.

The product is ready to use, so DO NOT dilute it with water or solvents.

Use only clean and dry tools. Close packages immediately after use. High or low storage temperatures can alter the viscosity of the product. For optimal application, we recommend storing at least 24 hours before use at temperatures close to +20°C.

TOOL MAINTENANCE

Cleaning tools with denatured alcohol, ethyl alcohol, if the product is still wet. If the material has set, clean the tools mechanically.

SURFACE CLEANING

If, with time and use, it is necessary to clean the surface of **MATIZOL ELITE TIXO**, use a solution of water and denatured alcohol in a ratio of 1:1.

7. LOGISTIC DATA

Pakaging size	number of packages per pallet
5 kg	120

8. TECHNICAL PARAMETERS

Appearance	Liquid paste
Colour	White, Grey, Red, Green
Specific Gravity at 20°C (g/cm³)	1.40 ± 0.05
Dry content (%)	98 ± 1
Brookfield viscosity at 20°C (Cps)	22 500 ± 1 000

PRODUCT PERFORMANCE CHARACTERISTICS

Operating temperature	-30°C + 80°C
Weather resistance	Excellent
UV resistance	Excellent
Flexibility at low temperature (-26°C)	No cracks
Low temperature flexibility (-26°C) after 1000 hours of accelerated aging (ASTM D522):	No cracks
Elongation at Break (ASTM D 2370)	60%
Elongation at the breaking point after 1000 hours of accelerated aging	47%
Resistance to negative pressure	4 bars

Resistance to positive pressure	6 bars
Water absorption after 24 h (%)	<0.1
Water absorption after 7 days (%)	<0.5
Water vapour permeability class (UNI EN 1931)	SD 1 (>0.5 <2)
Application Temperatures	from 0°C to +45°C

ADHESION TO THE SUBSTRATE (UNI 1542):

Adhesion to the substrate (N/mm ²) after 14 days	
CONCRETE ¹	≥ 2.60
TILES ²	≥ 1.25
Adhesion to the substrate (N/mm ²) after 14 days of immersion in water	
CONCRETE ¹	≥ 2.20
TILES ²	≥ 1.10
Adhesion to the substrate (N/mm ²) after 14 days of immersion in salt water	
CONCRETE ¹	≥ 2.00
TILES ²	≥ 1.20
Adhesion to the substrate (N/mm ²) after 14 days of immersion in water at pH2	
CONCRETE ¹	≥ 1.80
TILES ²	≥ 1.25
Adhesion to METAL	≥ 2

Remarks: ¹ Concrete Detachment ² Tile Crack

EMISSION OF VOLATILE ORGANIC COMPOUNDS

Parametr	Maximum permissible concentration (μ/m ³)
TVOC after 3 days	≤ 750
TVOC after 28 days	≤ 60

Test provided by EUROFINS Institute according to EN 16516, ISO 16000-3-6-9-11 and ASTM D5116-10, Test report No. 392-2018-00451601_G_EN_02

9. STORAGE & TRANSPORTATION

Store for up to 18 months in the original sealed containers. Containers should be stored in an upright position, away from sources of fire and heating elements, in conditions where they are protected from direct sunlight and weather influences. Cannot be stored in sub-zero temperatures. Permissible transport and storage temperature from +5 to 35°C. It is not frost hardy.

10. HEALTH AND SAFETY WARNINGS AND RECOMMENDATIONS

Detailed information can be found in the manufacturer's Safety Data Sheet. The above data, recommendations and guidance are based on our best knowledge, research and experience and have been given in good faith in accordance with the policies of our company and our suppliers. The proposed procedures are considered common, but each user of this material should make sure in all possible ways, including checking the final product under appropriate conditions, that the materials supplied are suitable for achieving the intended purposes. Neither the Company nor its authorised agents can be held liable for any losses incurred as a result of the incorrect or misuse of its materials.

ECOLOGY

Do not dispose of the product and/or empty containers in the environment. Refer to the latest SDS for more information on disposal.

11. PRODUCER

SELENA FM S.A., Legnicka St. 48A;
54-202 Wrocław, Poland
www.matizol.com