

Technical Letter

Majvest 500 SA: Statements of Material Compatibility

Updated on: July 31, 2018

Introduction

This technical letter is intended to provide information on compatibility between Majvest 500 SA and the adjacent layers to ensure that the integrity of the critical interface at a transitional area, where it is essential for unlike building components to meet and seal, is preserved.

Majvest 500 SA is designed to be chemically compatible with most substances and products that are normally present in modern construction. Generally, there is not a chemical compatibility issue if the material contacts the film (top) surface of the Majvest 500 SA.

If the contact area is the adhesive side of Majvest 500 SA, there is need to investigate further since the chemical compatibility of dissimilar materials can cause reactions that affect the performance of the self-adhered membrane and/or the degradation of the materials they contact.

The following guidelines are to help in the selection of materials that can be used and to identify products that should not be used in contact with the adhesive side of Majvest 500 SA.

Compatible Materials

- Majvest 500 SA has excellent adhesion to concrete, concrete block, anodized aluminum, galvanized metal, plywood, extruded polystyrene, PVC and most exterior gypsum sheathing without the use of primer.
- The membrane bonds well with no primer to most common thru-wall flashing/surface-mounted flashing like: Henry Blueskin SA, Henry Blueskin TWF, Henry Blueskin Butyl Flash, GCP Perm-A-Barrier, ProtectoWrap BT25XL, ProtectoWrap PS45, VaproShield SS Flashing, Carlisle CCW-705, HB Textroflash, Soprema Soprastick 1100T, 3M 3015 TWF. On those substrates, the adhesion strength will moderately increase over the time (If additional products are required for competitive procurement, contact SIGA applications advisor for assistance on additional testing).
- Majvest 500 SA is compatible with many building sealants: There is no adverse reaction with acrylic, butyl synthetic rubber, polyurethane, silicone and Silane-terminated polyurethane prepolymers. Since adhesion and or compatibility with individual caulks and sealants may vary, it is recommended that products be pre-tested prior to full application (refer also to the "Sealant *Chemical Compatibility*" chart on the SIGA Website: <https://americas.siga.swiss>)

Limitations

- Contamination of Majvest 500 SA membrane with building site chemicals, asphaltic materials, surfactants, or cleaning compounds, could adversely affects its water resistance and therefore its contribution to the water resistance of the overall wall system. If contaminated, replace affected membrane.
- Majvest 500 SA membrane is not compatible with the following substances: Hydrocarbon Solvents, Diesel Fuel, Chloroprene, Gasoline/Oil, Polysulfides, Asphalt or Coal Tar.
 - Additional testing is recommended on EPDM, TPO and PVC roofing membranes for specific projects. If required, contact your local SIGA applications advisor for assistance
- Oriented strand board (OSB) and wood-fiber board are not approved substrates for Majvest 500SA without preparation using SIGA Dockskin primer

Primer

In some cases, the ability to adhere to the substrate may be compromised by irregular surface texture, chemical release agents, moisture content, dirt and debris. If required, installer has option to use the high-performance primer SIGA-Dockskin to enhance the adhesion of Majvest 500 SA.

Installation

- Install Majvest 500 SA on Dockskin after primer dry
 - Drying time depends on temperature, substrate, moisture content. Allow primer to dry to a non-transferable tacky film, typically 60-90 minutes at 77°F (25°C), 50% RH. Prime only as much substrate as will be covered with Majvest 500 SA in a single day.

- Coverage Rate of primer:
 - Coverage rate will vary depending on porosity and texture of substrate.

Substrates	Coverage rate Oz/ft ² (g/m ²)
Oriented strand board (OSB)	0.45-0.55 (~140-170)
DensGlass Fiberglass Mat Sheathing	0.35-0.45 (~115-145)
USG Securock Mat Sheathing	0.15- 0.25 (~50-80)
GlasRoc Sheathing	0.20- 0.30 ((~60-90)
Gold Bond eXP Sheathing	0.25-.035 (~80-110)
Concrete	0.7-0.8 (~210-240)

- Surfaces to be primed should be dry, clean, smooth, firm, free of dust, mud, loose mortar, wires, fins, metal projections or any other substances that might prevent placement and bonding of a continuous film. Remove sharp edges from timber and steel wherever possible
- Ensure all primed surfaces are free from dust sand or similar dirt.
- Ensure all primed surfaces are covered in the same day

For additional information, please contact local SIGA application advisor if you have additional substrate questions.

Technical Information

Technical information, recommendations and other statements contained in this document are based upon tests or experience that SIGA believes are reliable, but the accuracy or completeness of such information is not guaranteed. SIGA strongly recommends on-site testing for adhesion prior to final application of Majvest 500 SA. If adhesion to the tested substrate is marginal, a primer should be used to achieve adequate adhesion

Product Use

Many factors beyond SIGA's control and uniquely within user's knowledge and control can affect the use and performance of a SIGA product in an application. Given the variety of factors that can affect the use and performance of a SIGA product, user is solely responsible for evaluating the SIGA product and determining whether it is fit for a specific purpose and suitable for user's method of application. Please refer to the System Guideline Majvest 500 SA for further information on the use of the product

Warranty

The SIGA products carry a limited warranty. Please refer to our website at <https://americas.siga.swiss> for the most up-to-date Technical Data Sheets.

Disclaimer

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