

The Different Backings and Their Recommended Adhesives

A complex manufacturing process has now enabled the splitting of millimeter thin layers from slate rocks.
A special polyester resin with glass fibers bond these thin stone layers together.

GRP (Glass fiber Reinforced Polyester resin)

This is the **standard** backing for all Slate and Quartzite products. It is durable and recommended for exterior as well as interior use.

One type of adhesive used with this backing is PUR. These adhesives are found in most woodworking businesses commonly known as PUR Hot Melt adhesives. This adhesive is typically applied from a heated cartridge or roller coater. It is applied hot (about 250°F is typical) and sets quickly as it cools. PUR Hot Melts are used for general assembly and lamination of panels.

PU adhesive is a liquid Polyurethane and is applied at room temperature. They normally offer excellent water resistance. Franklin's Polyurethane Wood Glue and "Gorilla Glue" are some examples of liquid polyurethane. Most people are familiar with the cartridge dispensing applications of PU commonly called construction adhesive such as Liquid Nails™. Ceramic tile adhesive is another form of PU.3



GRP with Fleece This is an **optional backing** for Slate and Quartzite. Although durable, it is not recommended for exterior use, only interior use.

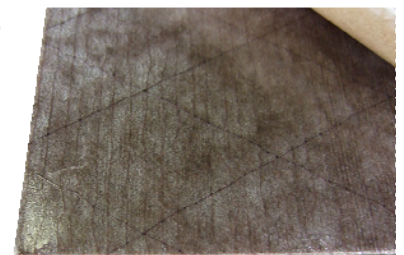
The fleece backing is perfect for contact cement as used in about every woodworking and cabinet business. Also good for any typical wood glue. When using with any hot or cold hydraulic veneer press it is best to place some kind of rubber between the Stone-Veneer and the metal plate. This way the pressure will distribute evenly compensating for the three dimensional surface. Any PUR adhesive will work as well.



Fleece This is the **standard backing for all NanoStone**. The fleece is bonded and interwoven into the very thin structure of the NanoStone. It is also perfect for contact cement or any typical wood glue. Veneer press applications are not recommended as the adhesive may be forced through the front surface under pressure.



GRP with Peel and Stick This is an **optional backing** and is exactly what the name implies. Peel it and stick it. It is not available on NanoStone. A note of caution... it sticks fast and hard so accurate placement "the first time" is required because it will not come off easily and damage may occur to the surface it was applied to while trying to remove the Stone-Veneer. Not recommended for exterior use.



Natural Fiber (NaFa) This is *an option only available on NanoStone*. It is 100% recycled leather fibers. Not recommended for exterior use. It can be sewn/stitched together or onto a fabric substrate. Contact cement will work as well.



Textile Fleece The standard backing for Sandstone. Once mined the sand is bonded vertically with thermoplastic binders onto large sheets of the textile fleece. PUR Hot Melt adhesives, Polyurethane adhesives (Polyurethane Wood Glue and "Gorilla Glue"), Contact cement, standard wood glue, construction adhesive and ceramic tile adhesive will all work well with this backing.



As with any adhesives or glues, follow the manufacturer's instructions for proper applications and usage.

The information presented herein is supplied as a guide to those who handle, install or use this product. It is important that the end user makes a determination regarding the safety procedures utilized during use of this product and insure they are adequate. Our application of written or spoken technical recommendations that we use to support the buyer / processor is based on our experience, according to the current state of knowledge in science and practice and are not binding and shall not establish a legally valid contractual relationship, and no additional obligations under the purchase contract.