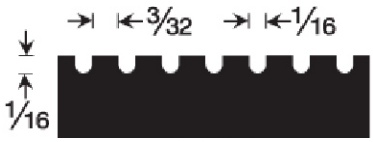
Hydro-Seal™
Mitigation Solution

Trowel Size Matters!...

In recent tests for bond strength, one trowel size stood out with the application of pressure sensitive adhesive or dry-set glues.



The trowel is sold by Carder industries as a K-Notch or Gundlach as AVF. In side by side tests the K-Notch trowel developed significantly higher lap shear numbers than a 1/16" x 1/16" x 1/16" sq notch trowel blade.

K-Notch or AVF (psi)	1/16" sq notch (psi)
136.5	108.5
202.0	105.5
132.0	118.5
139.5	141.5
184.5	126.5
158.8 ave	120.1 ave

30%
Difference

The lap shear numbers generated are for a wood substrate 1"x 1"sq.
(The cross-sectional area was not used to elevate the recorded data, data was the actual values in lbs pulled)

The 30% difference in recorded data was found to be a statistically significant average with additional tests. The increase in bond strength when a torsional force such as shear is applied can be attributed to the quantity of adhesive at the bond interface. The more glue found between substrates the more weight it plays in torsional stability. A hard setting glue like that used for vinyl sheet exhibits statistically little difference between the above trowel sizes. The PSA is soft by nature and becomes the weak link when excessive quantities are applied.

For the highest bond strength with the use of
Pressure Sensitive Adhesive...

Less is More.

FORMULATORS