

System description

The product is similar to wet-and-dry abrasive sheets but with a sticky back – technically speaking it is a pressure-sensitive adhesive (PSA).

Relatively new to the sphere of blade sharpening, it was developed for the engineering industry so the tolerances have to be precise. It is consistently flat and the grit particles are carefully graded and electrostatically orientated.

The film is available in various grits and I chose four sizes, see *Grade attributes over page*, missing out the 40-micron which is equivalent to around a 400-grit waterstone. This is used for removing nicks in blades or heavy back flattening.

Workshop Heaven stocks aluminium oxide cyrstal sheets plus sheets of float glass designed to be used as three ½ sheets at a time, in 100, 60, 30 and 5-micron sizes, but in fact 3M's whole range is pretty substantial.

The film comes in suitably large 215 x 280mm sheets. Divided by three, the sheets are enough to fit a No.8 jointing plane blade.



The different grits



The general layout

Simply stick the film onto your substrate. I purchased from my local glaziers a piece of 10mm plate glass. This is NOT toughened or laminated as this can warp the glass. Ask the glaziers to polish or bevel the edges as this will stop you cutting your hands.

The glass is then secured to a piece of MDF to protect it. I stuck all four grits on one piece of glass in sequence, working

left to right, then spun the glass round and again left to right.

The sharpening film will work with either water or oil as a lubricant; I found oil to be better as there was less juddering and less ripping of the film. The blade only needs a few strokes on each grit so don't get carried away.

Check to see if you have raised a burr on the back of the blade and if you have

then go on to the next grit, working on the back then the front.

After going through all grits there is no need to strop the blade on leather – in fact I have a nagging thought that this might just dull the sharpened blade.

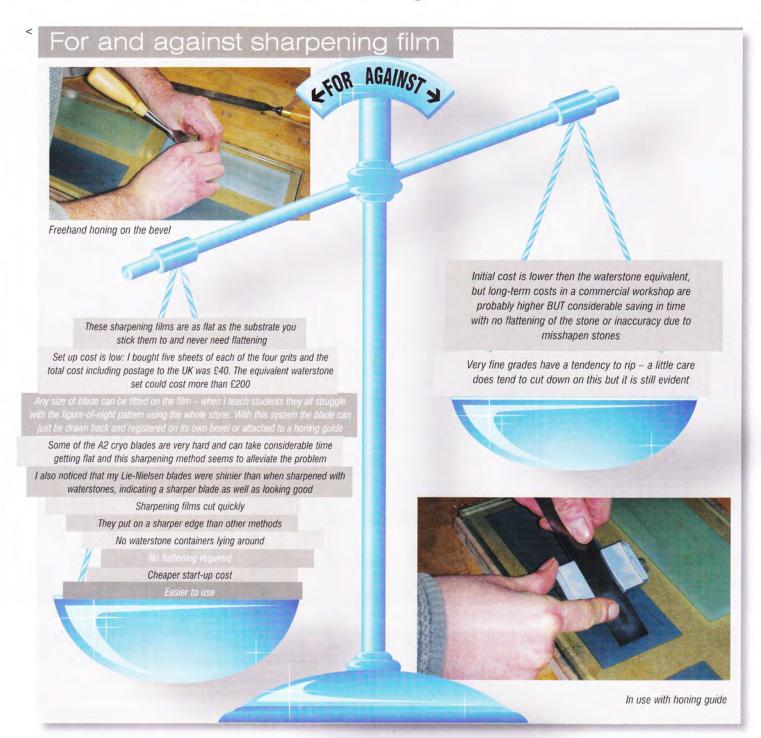
For everyday work you could skip the last grade of film, but when it only needs a few strokes why not have super sharp even on everyday work? Go on, treat yourself.



Detail of edge of glass and paper strip



Applying camellia oil with spray





Freehand-honing a plane iron

Grade attributes

15-micron silicon carbide (similar to a 1,200-grit waterstone)

5-micron silicon carbide (similar to a 5,000-grit waterstone)

1-micron chrome oxide (similar to a 6,000-grit waterstone)

0.3-micron aluminium oxide (similar to a 12,000-grit waterstone)

Traditional stones

Most of us have tried various sharpening methods and stones. Some we like,

some we don't. The biggest problem for us all is flatness. Oil stones stay flat for a reasonable length of time but are hard to flatten. Waterstones are renowned for going out of shape very quickly but are easy to flatten. Diamond and ceramic stones are rarely flat when you buy them and can't be flattened.

Conclusion

This is a very exciting development; I have made the change and will not go back to waterstones. I can see these really catching on. What more can I say except give them a try. REC