

SUPERFLEX SPECIAL is an aqueous solution of synthetic wax lubricants and polymers formulated for application as a warp wax or cold size to significantly improve weaving performance.

APPLICATION

Ideally suited for application to all types of warp yarns whether natural, synthetic or blended, regardless of the system on which they have been spun, and where an alternative wax to **UNILUBE WWA** with higher solution viscosity and a significantly harder film strength is required.

May be applied by trough and lick roller at the warp mill or beaming frame. The product is ideally suited for application by W & L / WIRA Warp Waxer which has been specially designed for this purpose.

The following generalized application rates are recommended:-

Woollen Yarn	2.0 – 6.0%
Worsted Yarn	2.0 – 4.0%
Synthetic / Wool Blend	1.6 – 4.0%
Synthetic / Cotton Blend	0.8 – 3.6%
Synthetic Staple	0.8 – 3.6%
Synthetic Filament	0.6 – 1.6%
Linen & Linen Blends	5.0 – 8.0%
Jute & Jute Blends	5.0 – 8.0%

However, the user should adjust these figures to suit individual requirements.

TYPICAL PROPERTIES

Appearance	-	Pale Yellow Viscous Liquid
% Activity	-	20 ± 1%
Ionic Character	-	Weakly Anionic
pH	-	6.0 – 8.0
Viscosity (B4 Ford Cup)	-	Typically 20 secs @ 20°C
Anti-static Properties	-	Excellent
Solubility	-	Soluble at all application temperatures
Storage	-	Remains liquid at all temperatures

MODE OF ACTION

SUPERFLEX SPECIAL acts as a cold size and smoothing agent for warp yarns. A substantial reduction in yarn to yarn friction and yarn to metal friction is achieved by the laying of the surface fibres of warp threads parallel to the axis of the yarn which in turn aids reduction in, or elimination of, common weaving faults such as stitching or pilling with plain weaves and closely set warps.

SUPERFLEX SPECIAL serves as an extremely effective antistatic wax lubricant in reducing fibre/metal friction is very effective in reducing fly and fibre shedding which commonly builds up on the loom to weaving faults particularly during high speed weaving.

SUPERFLEX SPECIAL applied to continuous filament yarns aids weaving performance by coating the yarn with wax and binding the individual filaments together preventing opening out of the yarn and fibre breakage. In comparison with **UNILUBE WWA**, it has a higher solution viscosity, leading to increased pick-up and a slightly harder dry film strength ideally suited for yarns which are inherently more difficult to process such as linen, polyester / cotton or jute.

SUPERFLEX SPECIAL can be readily removed after weaving during a conventional scouring operation.

SUPERFLEX SPECIAL is totally soluble in chlorinated hydrocarbons and as such is readily removed in a typical solvent scour.

HEALTH & SAFETY

This product has been manufactured to the highest standards and when used for the purpose recommended is unlikely to present any significant health hazards. A Material Safety Data Sheet is available.

Indicated data are approximate values and are subject to the usual commercial fluctuations. All information correct at time of going to press to the best of our knowledge. This information may be subject to change without notification due to continual product research and development.