

## Window Insulation

A highly reflective insulating material developed to protect NASA spacecraft from intense solar radiation is now being used in a commercially-available window-insulating product which offers significant energy savings. Called Nunsun, it is a thin metallized film adhesively bonded to windows of homes, office buildings, schools, industrial plants and other facilities; the film reflects the sun's heat and glare outward, thereby cutting down on energy costs for cooling. Trained dealer personnel can affix the film to windows of any size in minutes (right), converting ordinary glass to heat-reflective mirror glass at a fraction of the cost. Manufactured by National Metallizing, a division of Standard Packaging Corporation,

Cranbury, New Jersey, Nunsun is also available in windowshade form.

Fully transparent and easily cleaned, Nunsun filters out 75 percent of the sun's infrared heat rays which would otherwise penetrate the glass and heat interior space, the company says. In summer, the film substantially reduces air conditioning requirements. It affords additional energy savings in winter by blocking the escape of interior heat through glass. Available in 12 color combinations, it has bonus value in that it protects draperies, carpets and other furnishings from sun-fading.

National Metallizing participated in development of the original reflective insulating film, used on the Echo communications satellite 20 years

ago. From the know-how thus acquired, the company developed a variety of advanced reflective films used on a number of unmanned satellites and on such manned spacecraft as Apollo, Skylab and the Space Shuttle.

