

UNISORB® VIBRATION ISOLATION ANCHOR PADS

VIBRATION DAMPENING QUALITIES OF ENGINEERED FELT

For thousands of years, man has used felted fiber to absorb shock and vibration. Even with advances in technology in polymer and elastomer chemistry, no other substance to this day equals felt in its ability to isolate against transmitted shock and vibration. UNISORB® RED-LINE™ PADS are also highly resistant or impervious to most industrial chemicals, oils and moisture. Life expectancy, in most cases, will exceed that of the machinery with which they are installed.

UNISORB® MOUNTS AND PADS SATISFY OSHA REQUIREMENTS

UNISORB leveling mounts, pads and anchor bolts satisfy OSHA requirements for machinery installation. Proper use of these products will:

- Improve the efficiency of production equipment.
- Provide safer, more desirable environment for workers.
- Reduce down time and extend the operating life of your machinery.
- Prevent floor damage.

Harmful effects of vibration and noise may cause serious impairment to the efficiency of your workers and the overall effectiveness of your production machinery.

RED-LINE™ ANCHOR PADS



**BONDED PAD
ILLUSTRATED**

Reduced vibration contributes to more efficient operation and longer life of costly machinery. UNISORB's job-engineered RED-LINE™ ANCHOR PADS substantially reduce vibration transmission and keep light and medium-duty machines from "creeping" or "walking" without the use of anchor bolts and will materially reduce transmitted noise. Installations are fast, easy and inexpensive.

HOW TO SPECIFY UNISORB® ISOLATING & ANCHORING PADS

UNISORB® RED-LINE™ ANCHOR PADS Type H, HB, E, EB, D and DB have long been the standard for achieving superior results in the toughest shock/vibration applications. These pads are 100% wool fiber and are suitable for normal industrial environments being unaffected by exposure to oils, cutting fluids and coolants.

UNISORB® RED-LINE™ and RED-LINE™ ANCHOR PADS Type S, SB, F and FB are manufactured from 100% man-made fibers offering excellent performance at a lower cost. Types S, SB, F and FB pads are recommended for use in wet or "exposed to weather" applications or where strong concentrations of acids or bases will be encountered.

Both families of pad materials may be expected to outlive the machinery on which they are installed.

Use this formula to determine the proper pad materials from the chart below:

$$\frac{\text{Weight (pounds per foot)}}{\text{Foot length (inches) X Width (inches)}} = \text{Pounds per square inch}$$

PAD TYPE SELECTION				
Load Range (in PSI)	0-50	50-100	100-250	Over 250
Extra Light	Neoprene, H-1/4, S-1/2	Neoprene, E-1/2, S-1/2	D-1/2, F-1/2	Titan-1/2
Normal	H-1/2, S-1/2	E-1/2, F-1/2	D-1/2, F-1/2	Titan-1/2
Walking Normal	HB-1/2, SB-1/2	EB-1/2, FB-1/2	DB-1/2, FB-1/2	Titan-1/2
Normal Heavy Impact	E-1, S-1	E-1, F-1	D-1, F-1	Titan-1
Walking Heavy Impact	EB-1, SB-1	EB-1, FB-1	DB-1, FB-1	Titan-1
Severe Horizontal	S-1/2, H-1/2 + Adhesive	F-1/2, E-1/2 + Adhesive	F-1/2, D-1/2 + Adhesive	Titan-1/2 + Adhesive

UNISORB® VIBRATION ISOLATION PAD MATERIALS

RED-LINE™ ANCHOR PADS TYPE HB, EB, DB, SB, & FB

The nylon-bonded surface of RED-LINE™ ANCHOR PADS provides a high coefficient of friction to effectively prevent machinery from "creeping" and "walking". These pads are not affected by most oils and solutions found in manufacturing plants. Available in standard sheets of 36" x 60" for wool and 36" x 72" for non-wool, consult the factory for quotations on cut-to-size prices. When properly installed, RED-LINE™ PADS conform to OSHA requirements for machine anchoring.

RED-LINE™ PADS TYPE H, E, D, S & F

Available in a variety of densities and thicknesses to fit machine load requirements, RED-LINE™ PADS provide effective, low cost vibration control for machinery. Used with UNISORB® ADHESIVE, RED-LINE™ PADS effectively anchor "hard-to-hold" machinery in place without lagging or bolting. Available in standard sheets of 36" x 60" for wool and 36" x 72" for non-wool, consult the factory for quotations on cut-to-size prices.

UNISORB® ADHESIVE 90 PSI HOLDING POWER

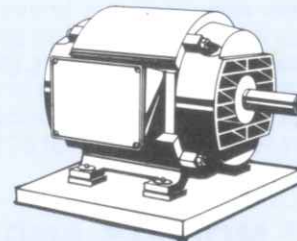


For permanent bonding of RED-LINE™ PADS, UNISORB® ADHESIVE creates a permanent bond to steel, iron, concrete, wood and other floor materials when properly applied. Available in gallon or quart containers. One gallon covers approximately 2,000 square inches of pad on both sides. Will achieve a full cure in as little as four hours. UNISORB® ADHESIVE is freeze/thaw stable and develops sufficient initial tack to permit its use in holding foundation isolation materials in place on vertical foundation surfaces during construction.

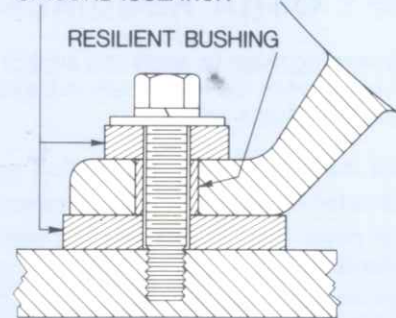
UNISORB®

PRODUCT APPLICATIONS

BOLT-THROUGH ISOLATION



UNISORB ISOLATION



This basic approach has been applied satisfactorily to equipment from 1/4 horsepower electric motors to 2,000 ton capacity stamping presses. The machine foot is completely isolated from contact with either the mounting structure or anchor bolt by isolation material. Neoprene tubing (of the appropriate size) is used for the resilient bushing around the anchor bolt.

RED-LINE™ PADS

UNISORB was contacted by a company planning to relocate 41 assorted cold headers, bolt makers and nut forming machines from one plant to another. We recommended the use of Type D½ RED-LINE™ PADS and UNISORB® ADHESIVE for proper machine installation but our proposal was initially rejected by the customer as being too expensive. They selected a competitive non-felt material which was lower in cost.

Almost as soon as the machines were installed and operating the company began to experience failure in the installations. A significant number of machines had "walked" off their pads, and in some cases, were stopped only by the walls of the factory.

We were again contacted and our recommendation was to reinstall at least some of the machines on RED-LINE™ PADS. Once our installation was completed and the results observed the company requested that all of the pads in the plant be replaced. Our approach to the correct application of pads is now the approved standard method with the company.