





Soft Tissue Injury Prevention Tool

Solit rissue injury Prevention 1001	
Tip Sheets Trade: Concrete Wo	rk
	anual Screeding
General Tasks	Common Tools
 Screeding/rodding is the first step in the process of leveling and smoothing just-poured concrete. Screeding/rodding involves pulling a device such as a 2x4 over fresh poured concrete to even out and fill in the surface prior to the completion of finer finishing processes such as floating or troweling. A single worker may screed a narrow pour area, whereas two workers generally work as a team to screed wider pours. 	 2X4 for Manual Screeding Walk Behind Power Screed
Potential Risk Factors	Possible Solutions
Risk Factors can lead to increased risk for Work Related Musculoskeletal Disorders (WMSD's)	Awkward Posture, High Grip Force & Repetitive Motion Solutions:
 Extreme Forward Back Bending Frequent and sustained extreme forward bending for extended periods when manually screeding concrete during large mat/deck pours. High Pinch Grip Force with Highly Repetitive Motion Manual screeding requires extended periods of sustained high pinch grip force of 2X4 coupled with repetitive hand/wrist and arm motions when pulling concrete. High Pinch Grip Force with Awkward Wrist Postures Manual screeding requires extended periods of sustained high pinch grip force of 2X4 coupled with awkward hand/wrist and shoulder postures when pulling concrete. Manual screeding requires extended periods of sustained high pinch grip force of 2X4 coupled with awkward hand/wrist and shoulder postures when pulling concrete. Manual screeding requires extended periods of sustained high pinch grip force of 2X4 coupled with awkward hand/wrist and shoulder postures when pulling concrete. Highly Repetitive Motion with High Forceful Hand Exertions Manual screeding requires extended periods of highly repetitive motion when manually rodding with 2X4. The HIGHEST RISK may be realized when concrete pours are a 1000 yards or more. 	 Minimize awkward back postures by rotating every 1-2 hours between screeding/rodding and other finishing tasks. Stretch frequently, particularly performing back and upper extremity stretches. Utilize a power screed as often as possible. Use of a power screed also pulls concrete and helps to minimize concrete raking. Limit manual rodding/screeding to confined areas with limited space such as around electrical and plumbing stubbing. Potential Benefits Increases blood flow and reduce muscle tension. Reduces exertion of lower back. Increases productivity.
 Feasibility Engineer Control Administrative Control Work Practice Control Estimated Cost of Intervention \$919.97 for a Single person Power Screed 	