



# SSI XJS® STEEL SURFACE PREPARATION GUIDE

## DESCRIPTION

SILSPEC® 900PNS, 2000 and FLEXPATCH will bond to sound steel substrates with proper preparation. This document outlines the necessary steps for successful installation over steel armor angles or steel expansion joint components.

## PREPARATION

Steel angles, plates or components should be thoroughly inspected and sounded to ensure they are securely and firmly anchored to concrete substrates. Any loose, rocking or flexing steel must be removed to expose a sound concrete substrate. Loose material shall be cut-off or chipped out of the substrate at the Project Engineers discretion.

*Note: Polymer/Elastomeric Mortars will not bond well over time to loose, rocking or flexing steel substrates*

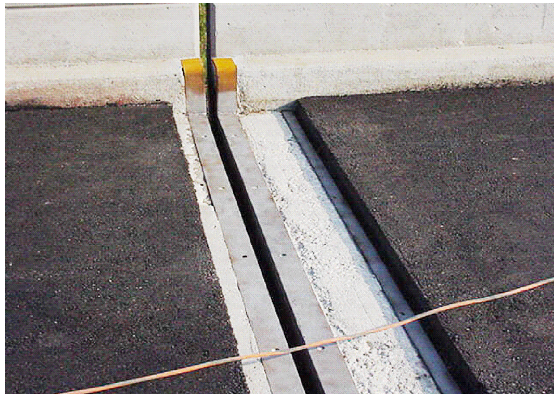
## EQUIPMENT

All sandblast equipment shall be of suitable size to efficiently clean rust, concrete laitance and other surface contamination from the steel surface. Sandblast equipment shall be equipped with traps to separate oil and moisture from the air supply. Personnel shall have proper safety equipment for sandblasting operations.

*NOTE: This document does not address safety issues associated with sandblasting steel surfaces with lead-based coatings. Safety related issues with lead-based materials should be addressed prior to starting work.*

## PROCEDURE

Surfaces to receive SILSPEC® Elastomeric Mortars shall be sand blasted to SSPC- SP10 Near White Condition (See Figure1).



**Figure 1 Cleaned Joint Block-Out with Concrete and Steel Substrates**

After blasting, the prepared surfaces and surrounding areas shall be blown clean with oil/moisture free compressed air and the cleaned steel surfaces shall be inspected to confirm a SSPC-SP10 Near-White condition. Blast media shall be picked up and disposed of in accordance with National, State or Local Requirements. To prevent flash rust-back, mortars shall be installed as soon as practical after cleaning. It is highly recommended that cleaning and installation be done on the same day.

Workers should be trained in proper procedures for using blast equipment, safety garments and fresh-air hoods. Refer to your local area requirements for types of blast media allowed and for use and safety requirements for workers.

## CONTACT

Contact SSI for further information or installation instructions of SILSPEC® Mortars.

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