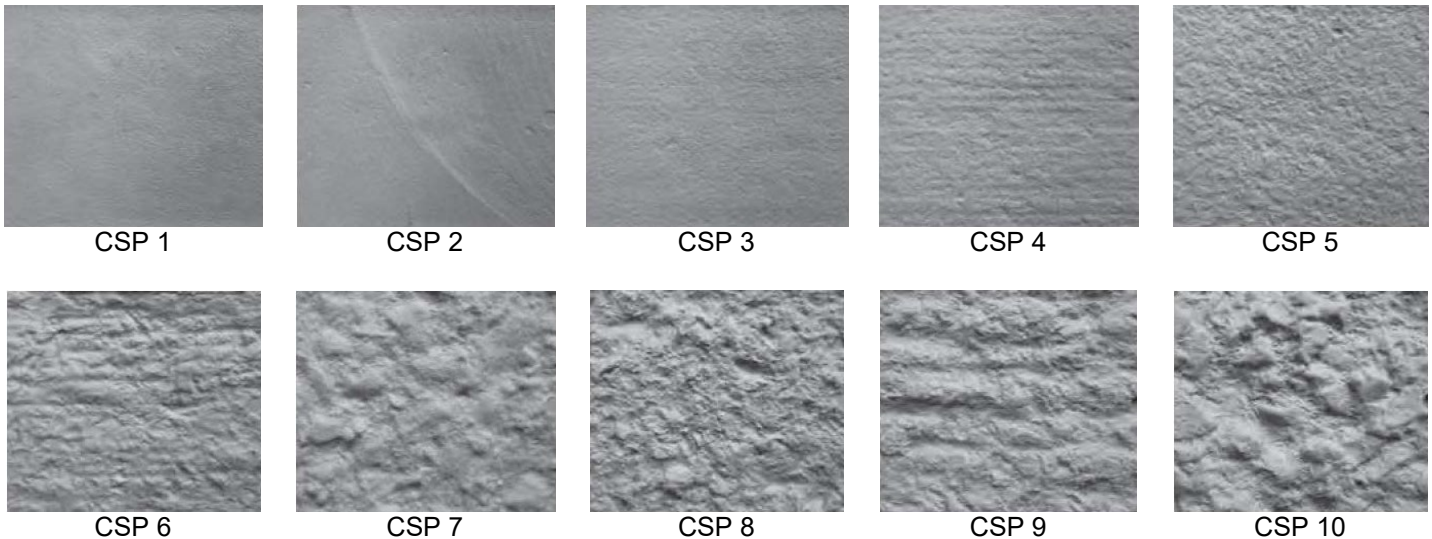# Pumadeq™ System Concrete Surface Profiles

Substrate preparation is essential for achieving a successful project and promoting adhesion of the Henry® Pumadeq System. Refer to product specific technical data sheet (TDS) and other published Pumadeq System Tech-Talk Bulletins to verify installation requirements. See product specific TDS for substrate qualification/preparation and resin application rates.

Concrete Surface Profiles (CSP)

Concrete surface profiles as defined by the International Concrete Repair Institute (ICRI) are categorized into 10 surface texture classifications: Concrete Surface Profiles (CSP) - CSP 1-10. Surface texture classifications are based on average distance from concrete peaks and valleys; CSP 1 indicating the smoothest surface and CSP 10 indicating the roughest surface. For optimal adhesion, install Pumadeq System onto concrete surface profiles ranging between CSP 3 - CSP 5, as defined by the ICRI Technical Guidelines number 310-2R-2013, and shown below.

| CSP 1 | CSP 2 | CSP 3 | CSP 4 | CSP 5 |

| CSP 6 | CSP 7 | CSP 8 | CSP 9 | CSP 10 |

Concrete surface preparation for Concrete Surface Profiles CSP 1 and CSP 2

Concrete surface profiles categorized as CSP 1 or CSP 2 are too smooth and may compromise adhesion. Refer to ICRI Technical Guidelines number 310-2R-2013 for substrate specific surface preparation methods. Commonly recognized industry surface preparation methods include, but are not limited to, the following:

Industry recognized substrate preparation methods	
Substrate preparation	Authorized method for Pumadeq System
Acid etching	✘ Do not acid etch.
Grinding	✔ Authorized in accordance with ICRI guidelines.
Low-pressure water cleaning and/or detergent scrubbing	✘ Do not wet substrate prior to Pumadeq System.
Needle scaling	✔ Authorized in accordance with ICRI guidelines.
Shot blast	✔ Authorized in accordance with ICRI guidelines.

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