

PERMEJECT™ PERMEATION IMPREGNATION PROCESS USEFUL FOR REPAIR OF ANTENNA SUPPORT PADS

Smithsonian and Astrophysics Observatory Consult With TECVAC, Inc.

Hilo, HI — TECVAC, Inc. is consulting with the Smithsonian for materials and services to deep seal support pads for a dozen new Submillimeter Array Antennas.



Twenty-one permanently positioned concrete antenna support pads were cast at the site on Mt. Hilo and now require modification and repairs. It is feared the cold joints and other deficiencies produced during the two phase casting operation will allow moisture and dust particles into the sensitive monitoring devices to be installed later. Tecvac, Inc. was consulted because its exclusive PermeJect™ Vacuum Injection Process has proven to fill the deepest and narrowest fractures more thoroughly and more permanently than conventional methods.

This unique and proprietary method is based upon creating a negative force in the concrete fracture or void, while introducing an ultra-thin polymer resin deep into the concrete-matrix. The resin fills the cracks, including micro cracks, down to and below 0.001 inch. In addition to the restoration and increase in structural integrity, the process also vastly decreases the susceptibility of imbedded reinforcing bars to corrosion.



Positioned high on the mountain at just under 10,000 feet elevation, the support pad repairs pose a real challenge for Tecvac technicians. The work day is short at just four hours per day and the entire site is extremely delicate with regards to aesthetic and environmental issues.

For more information telephone toll free 800.847.9324.

TECVAC, INC.

"Taking Quality To A New Level... Worldwide"

886 Rhonda Place, SE
Leesburg, VA 20175
O -703.742.9186 F -703.742.9231
e-mail jeremy@tecvacinc.com