

**PREVENT WATER INGRESS FROM RIVER IN ELECTRIC DAM PLANT ROOM**

<b>INDUSTRY</b>	Hydroelectric Dam
<b>CLIENT</b>	La Vegona Dam
<b>DISTRIBUTOR</b>	ShieldCrete International 1800 364 776 www.shieldcreteinternational.com
<b>APPLICATOR</b>	Poly Spray Coatings
<b>PROJECT</b>	Application of SCP 743 in dam plant room to prevent water seepage.
<b>LOCATION</b>	Honduras
<b>COATING SYSTEM</b>	Application (to refusal) of SCP 743
<b>DATE</b>	February 2013



**Description**

The La Vegona Dam in Honduras was constructed over 2012-2013 as a hydroelectric dam that would supply 38 Megawatts of electricity. Before the main wall was completed and filled, a sub-terranean plant room was constructed in the bedrock beside the river. It was constructed below grade with walls two metres thick in early 2013. This room would eventually be underneath the 22-metre spill height that would fill the dam in early 2014.

After construction, seepage was found to be emanating from the river into the plant room. This was of serious concern as 22 metres of water was to be filled above the room. The increased hydrostatic pressure would turn the seepage into a flood and the plant room into a tank!

A solution from SCP was requested, noting that it was not possible to treat the positive side of the wall as it was cast against the river bedrock. On 15 February 2013 at 2.30PM – SCP 743 was applied against the seeping wall. At 9.30AM on 18 February 2013 the wall was completely dry – allowing the installation of equipment to proceed. Even with 22 metres of water above the plant room, no water ingress is present in the plant room today.

SCP 743, applied from the negative side, can withstand these high levels (and more) of hydrostatic pressure.

