

PROJECT PROFILE



Project: Digesters, Valaska, Slovakia

Designer: Gemite Slovakia

Contractor: local contractor

Gemite products: **Spray-Con WS ST Concentrate and Cem-Kote Flex CR, Cem-Kote ST White**

Objective: a complete restoration of digesters. The structure before the repair is shown below. The existing digester walls were used as forms. The reinforcing mesh was mechanically fastened to the exterior and interior of the tank. Spray-Con WS ST wet shotcrete was mixed on site using **Spray-Con WS ST Concentrate**, sand cement and water. Additional 10 cm (4 in) of shotcrete were applied to the interior and exterior of the tanks, as in the photograph shown below. The interior of tanks was coated with two coats of **Cem-Kote Flex CR** as protection against sulfuric acid generated by micro-biological conversion of H_2S . The exterior of the structure was coated with **Cem-Kote ST White**. The project was carried out in 1999 and several inspections showed no deterioration of the protective **Cem-Kote Flex CR** coating.



Structure with digester tanks before restoration



Wet shotcrete process was used to structurally repair the tanks



Finished restoration – the interiors of digester tanks were coated with Cem-Kote Flex CR and the exterior structure was coated with Cem-Kote ST White

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