TL-0022 — PROCOR® Application to Shotcrete Subtrates Technical Letter

PROCOR® fluid applied waterproofing can be successfully applied to shotcrete (gunite) surfaces in a number of new construction or renovation applications. Although there are no specific shotcrete formulation requirements for use with PROCOR®, the shotcrete should be prepared and applied as specified in ACI 506.2-95 Specification for shotcrete. The aggregate used should meet ASTM C33 and be of less than 3/8" (10 mm).

The application should be carried out to obtain as smooth a finish as possible. The rough surface finish generally achieved with shotcrete may result high material usage and spray technique should be adjusted to ensure full coverage at optimal usage. The technique to be used is a multi-pass spray application from several different angles with the spray gun held 10 – 12 in. (250 mm – 300 mm) from the surface. A steel trowel finish on the shotcrete will greatly reduce PROCOR® usage and may be an economical option on some projects. As a minimum high spots greater than 1/2 in. (12.5 mm) should be smoothed off with a trowel during shotcrete application.

gcpat.com | North America Customer Service: +1 (877) 423 6491

Last Updated: 2024-06-21
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