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Influence of pre-treated alum sludge on properties of high-strength self-compacting concrete

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Highlights

- Studied the behaviour of High-Strength SCC incorporating treated alum-sludge.
- Up to 15% TAS improves the fresh and hardened properties of SCC.
- SCC containing TAS performs better in term of durability as well.

Abstract:

The disposal of alum sludge (AS) produced from drinking water treatment plants is gradually becoming a threat to the environment. The conventional disposal by landfill is