

SubFill backfill binder



SubFill backfill binder – a unique solution for more efficient backfilling in underground mines.

SubFill is a specific binder designed for pastefill and rock backfill in all mining processes. Binder is formulated to achieve effective soil solidification in extremely challenging underground applications such as tunnels, underground ducts and especially mines, for backfilling process where superior strength is required. It is set to meet the unique needs of the underground mining industry, and can reduce total binder consumption when compared to Portland cement.

Composition:

- Portland clinker 25 - 55%,
- Cementitious mineral components 45 - 75%.

Applications:

SubFill helps to support structures, prevent soil erosion and restore the ground to its original level.

- Pastefill of rock backfill for ground improvement to ensure stability and prevent settling.
- Underground mines (Zinc, Gold, Copper, Silver and Lead mines).
- Jet grouting.
- Piles and cut off walls.

Benefits:

- CO2 reduction of 60% or more compared to a local average Ordinary Portland Cement.
- Improved performances when used with sulphide/sulphate-bearing materials commonly found in mine tailings.
- Improved durability.
- Utilisation of recycled materials, promoting circularity and saving natural resources and preventing waste from landfill such, including cementitious materials.
- Potential binder reductions in some circumstances.
- Elimination of tailing detention and/or disposal requirement.
- Blend proportions may be varied according to specific requirements as determined by preliminary testing.

SubFill carries the Holcim Eco Label, delivering transparency about the sustainable profile of products and raising awareness for solutions that ultimately will bring the construction sector to zero carbon and zero material consumption.

Technical characteristics:

	Cemented Rock Fill CRF	Cemented Hydraulic Fill CHF
Common components	Waste rock + water + binder + something tailings and/or sand	Tailings + water + binder
Pulp desity	55 to 60%	65 to 72%
Current binder content	4 to 8%	3 to 10%, up to 16%
Texture		Muddy water, slurry
Curing time		up to 3 months

NOTE: The aforesaid information is based on our present state of knowledge and shall inform about our products and their application possibilities. Values and characteristics provided are typical and approximate size. It should not therefore be construed as guaranteeing specific properties of the product described or their suitability for particular application. Subject to change without prior notice.



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