

# SPRAYED CONCRETE & UNDERGROUND TUNNELING

Chemical Products for your  
Underground Construction Needs



# Stronger, Faster, Better of your Underground Construction

In both underground mining and general tunnelling activities, stability improvement via sprayed concrete or shotcrete has become the go-to choice for industry professionals.

Combining aspects of Concrete Technology and our Concrete Admixtures such as **POWERSET™** shotcrete Accelerant, **POWERTARD™** retarder, and other concrete admixture chemicals, we believe we can help you achieve a satisfactory result in your tunnelling endeavor.



Our **Sprayed Concrete & Underground Tunneling** are a perfect fit for:

- Excavation Stabilization and general Tunnelling
- Geotechnical Improvement and Slope Stabilization
- Protective Lining
- Concrete Maintenance and Repair
- Tunnel Boring Machine Applications



# Our Chemical Products

## **POWERSET™** : Alkaline Free Accelerator for Sprayed Concrete

Our product of conventional or Alkali Free Shotcrete Accelerant can be used in both dense and thin flow processes for wet spray or dry sprayed concrete. Our **POWERSET™ Shotcrete Accelerant** are designed to achieve your desired concrete early strength development for construction needs

- Provide excellent shotcrete early strength
- Alkaline free, thus providing better early strength results and low toxicity to tunneling operators
- Available in liquid form & powder form
- Compatible with any retarders & superplasticizers formulations

## **POWERPLAST™** : High Range Water Reducer for Sprayed Concrete (Superplasticizers)

Our various chemicals of **POWERPLAST™** superplasticizers, are designed to help your sprayed concrete achieve a desired workability and consistency for easier use in your sprayed concrete application.

Our **POWERPLAST™** product benefit

- Compatible with various shotcrete accelerant formulations
- Provide very low water content in the final set concrete sprayed
- Lowers water requirement for hydration

## **POWERTARD** : Retarder for Sprayed Concrete

Our Retarder admixtures can be used in the batching plant before the concrete is delivered to the construction site. It allows the setting time to be delayed and preserve both consistency and workability.

Our **POWERTARD™** product benefit :

- Provide flexibility for longer duration of retardation
  - Excellent workability for shotcrete application
  - Compatible with various shotcrete accelerant formulations
-



**PT POWERINDO KIMIA MINERAL**

The Prominence Tower Lt.12-H, Jl.Jalur  
Sutera Alam Sutera, Tangerang Banten,  
Indonesia 15143

Tel: (021) 30439716

Fax: (021) 30439717

marketing@pocs.co.id

[www.powerchemicals.co.id](http://www.powerchemicals.co.id)