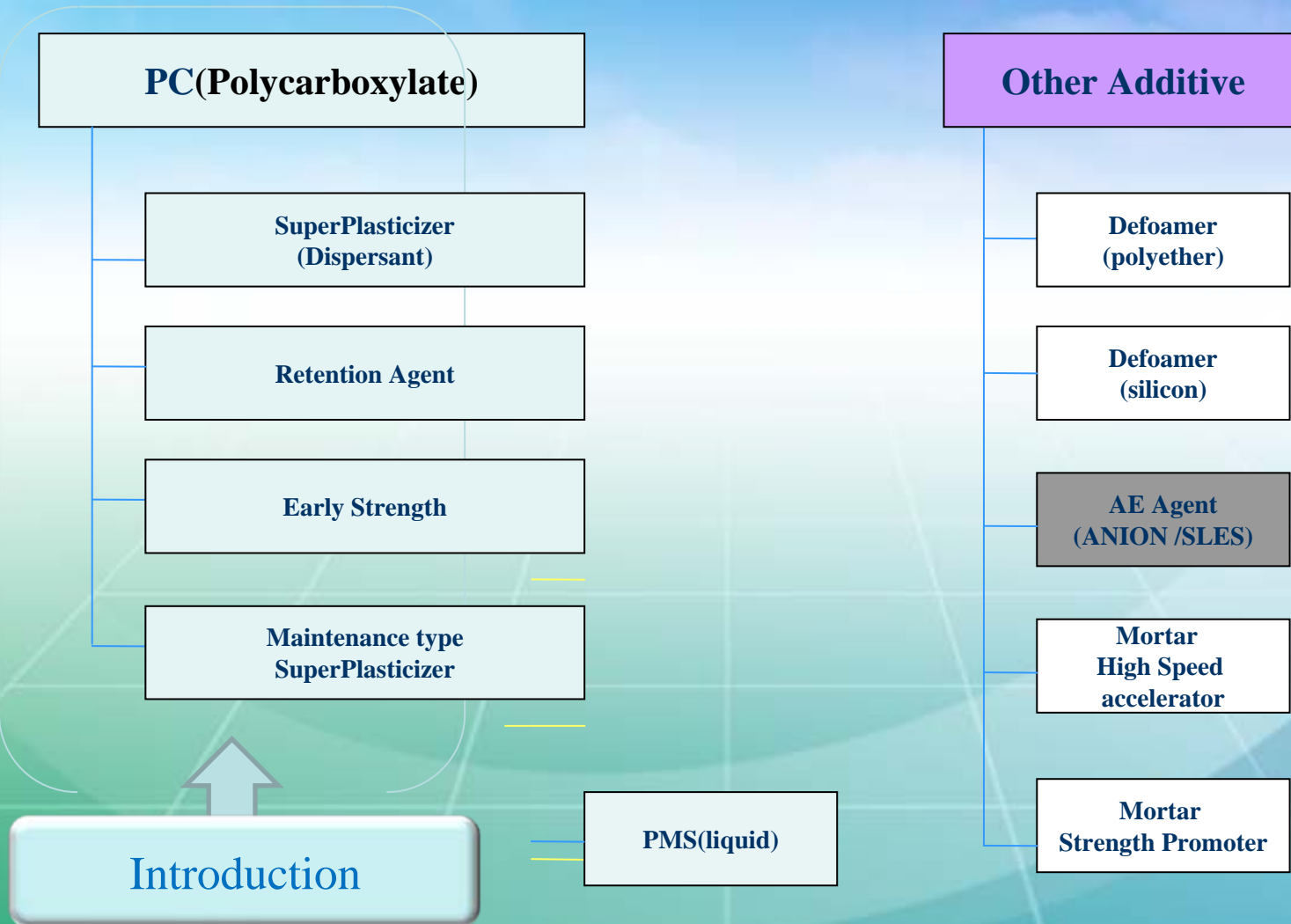


SUPERPLASTICIZER
(Water Reducing Agent)

YOUNG'S
CORPORATION



Product Introduction





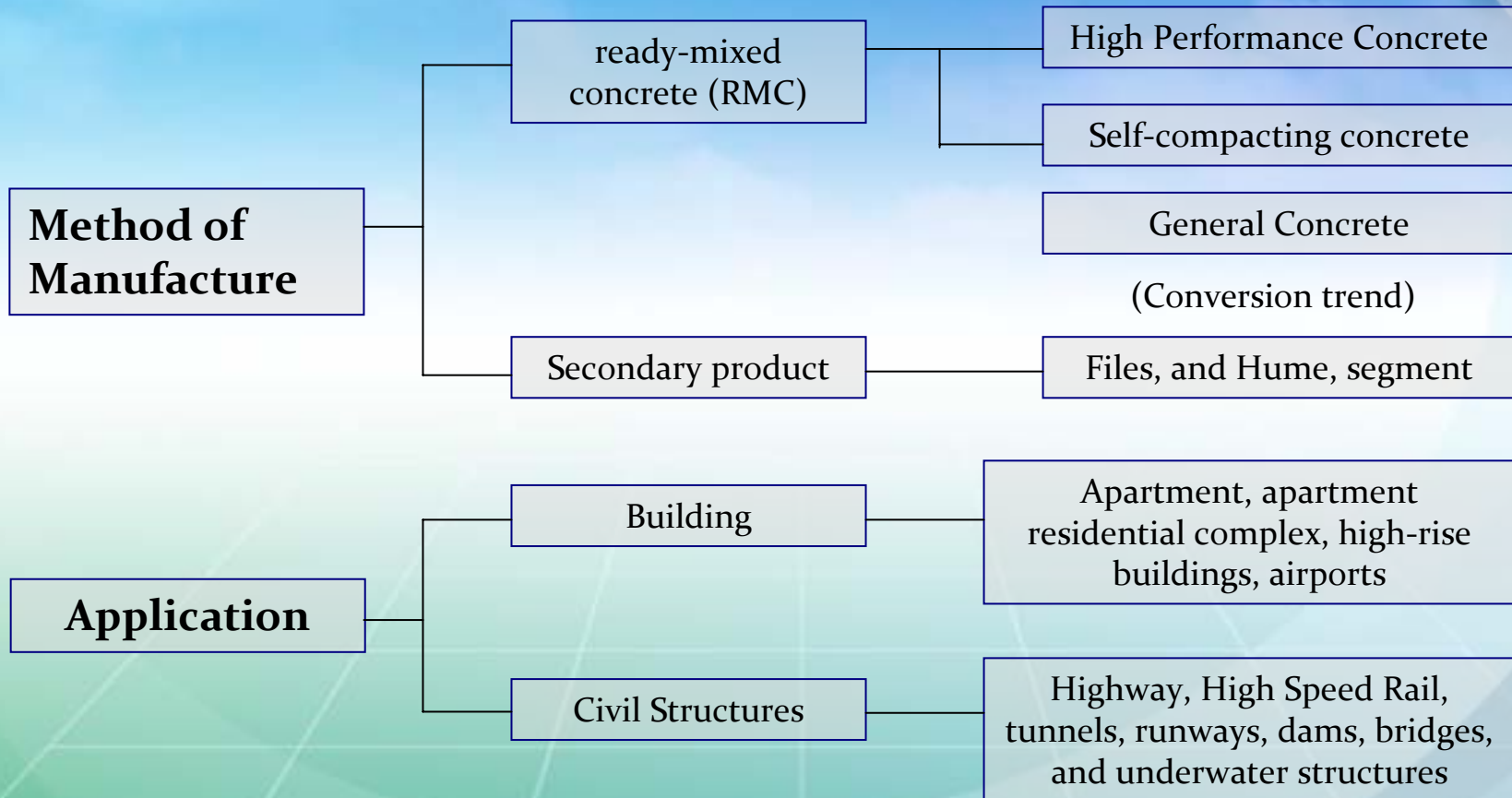
PC Main Application 1

- ▶ High-Performance Concrete, HPC
- ▶ If retention of a high-slump concrete required (LNG tank)
- ▶ That require a high water reducing rate of concrete secondary product
- ▶ High-rise buildings
- ▶ Self-compacting concrete, SCC
- ▶ Aggregates such as crushed sand, if quality is poor





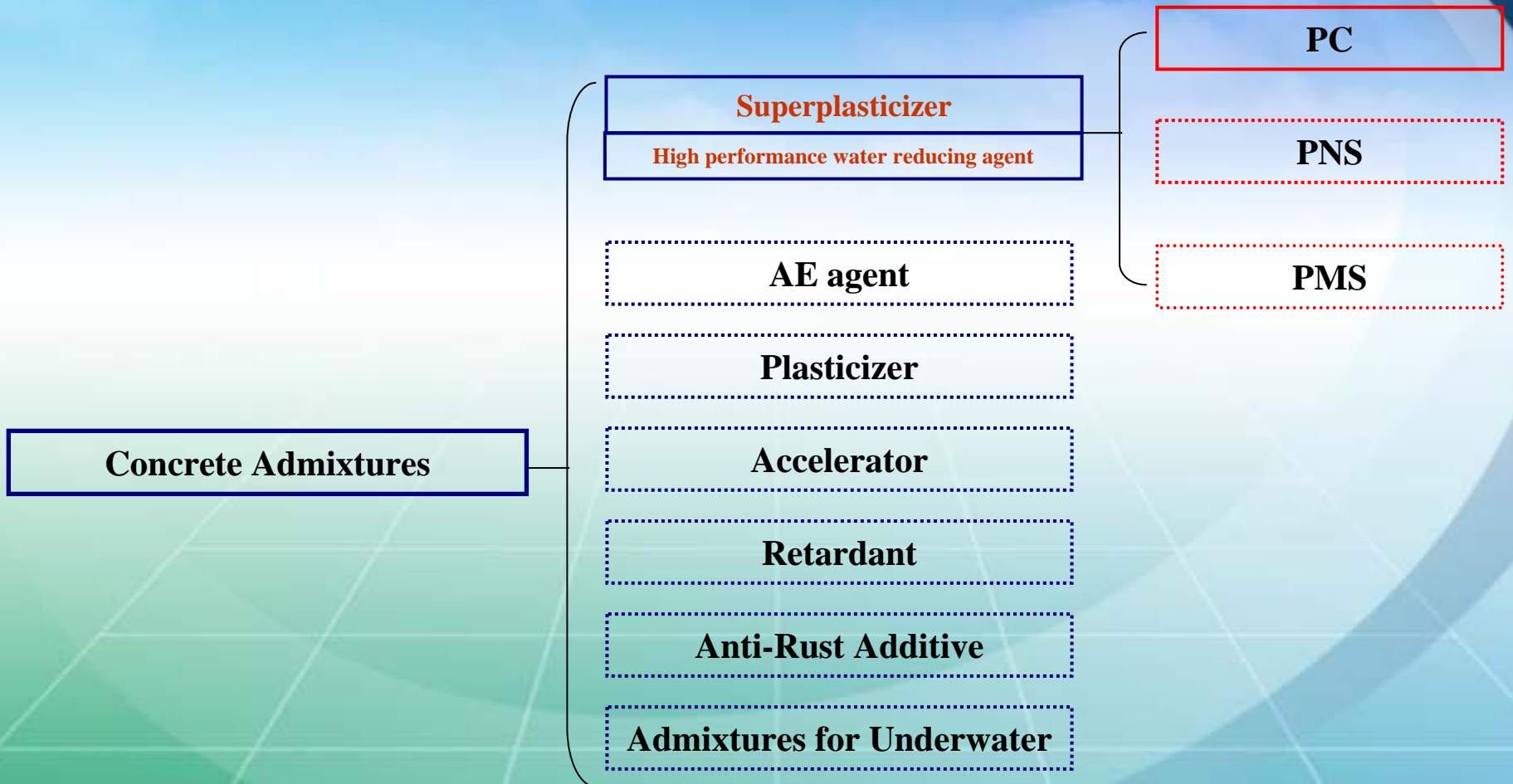
PC Main Application 2



PC is a big difference in usage between the PNS, but in general high-performance concrete has shown a tendency to increase PC usage.



Classification of PC





PC Introduction

Plasticizer	Retention Agent	Defoamer
Superplasticizer Important initial work	Retained superplasticizer Performance in maintaining workability	High-performance PC systems Defoamer The purpose of entraining air removal

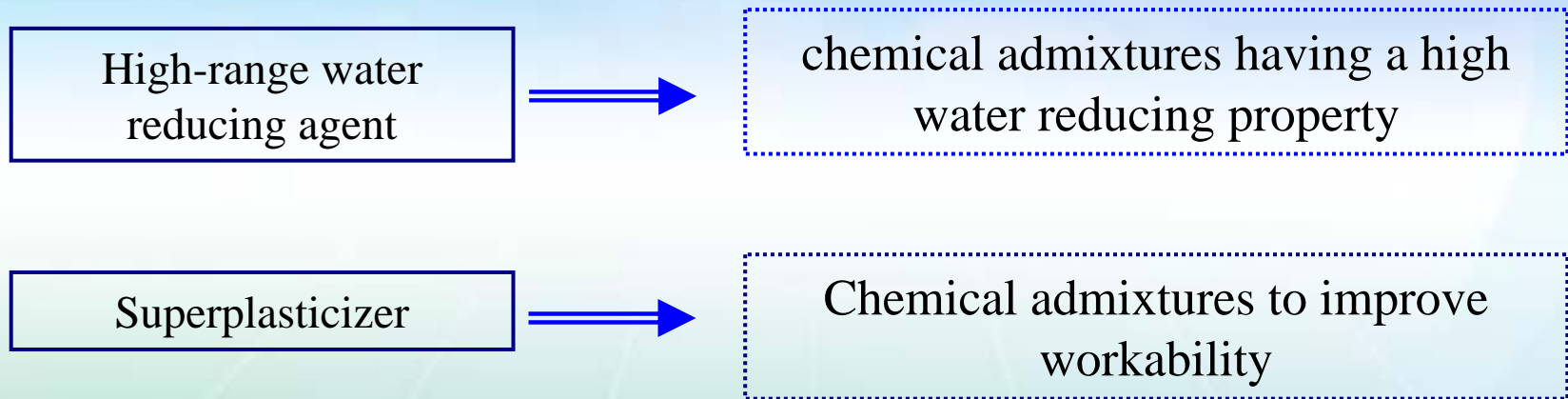
Two products are mixed in proper proportions for optimal performance

Emphasis on water reducing?

Emphasis on maintain?

Product of approximately 0.1 to 0.2% range

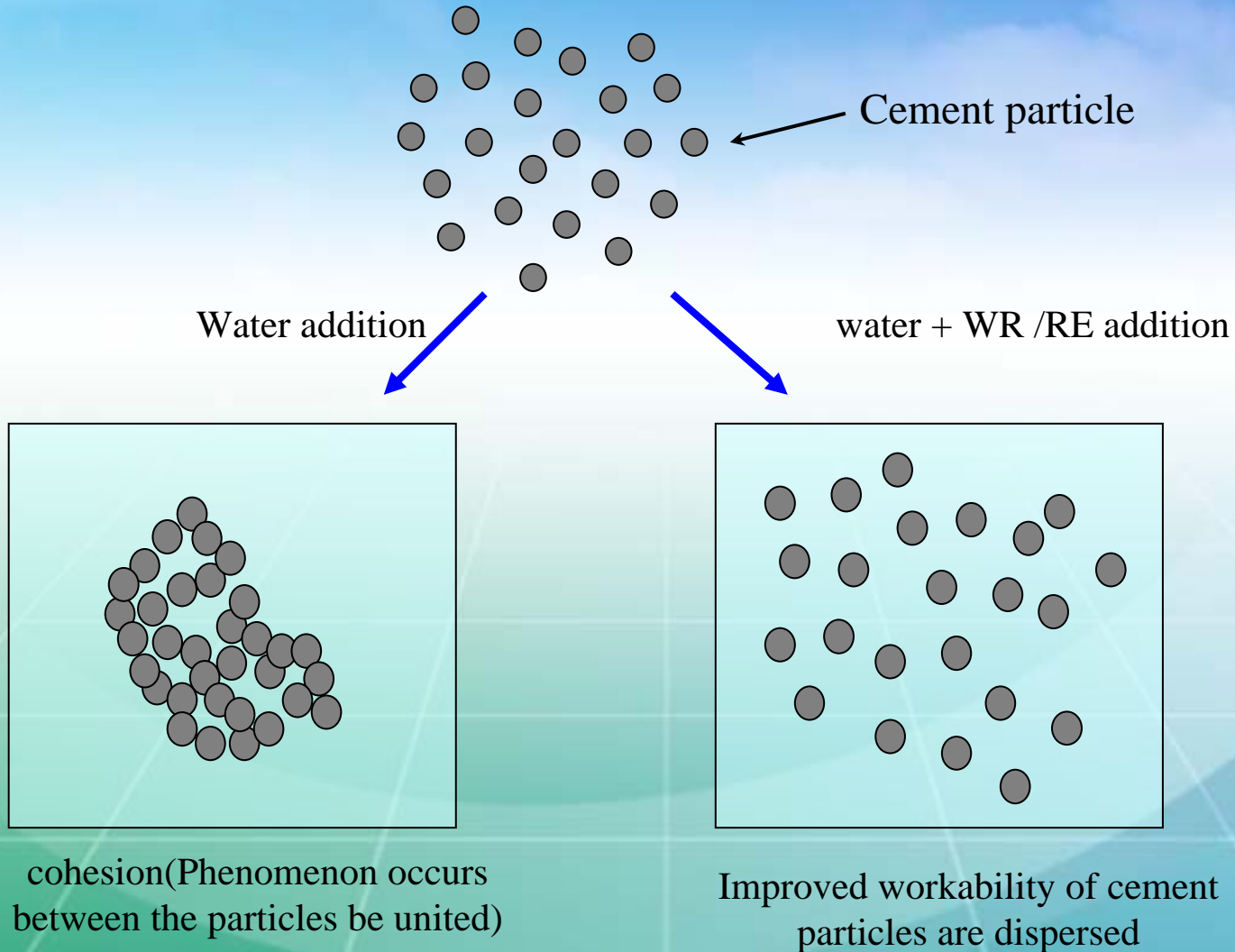
PC Application



The PC is called High-range water reducing agent or Superplasticizer by using purposes.

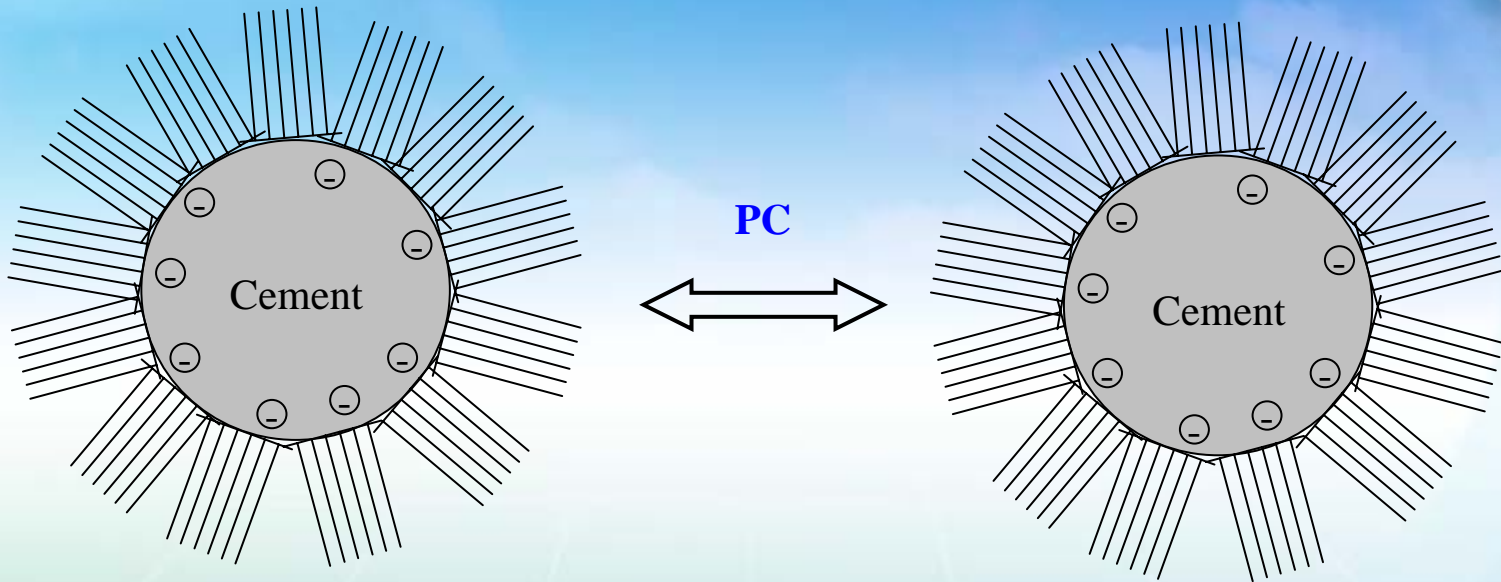


PC effect principle

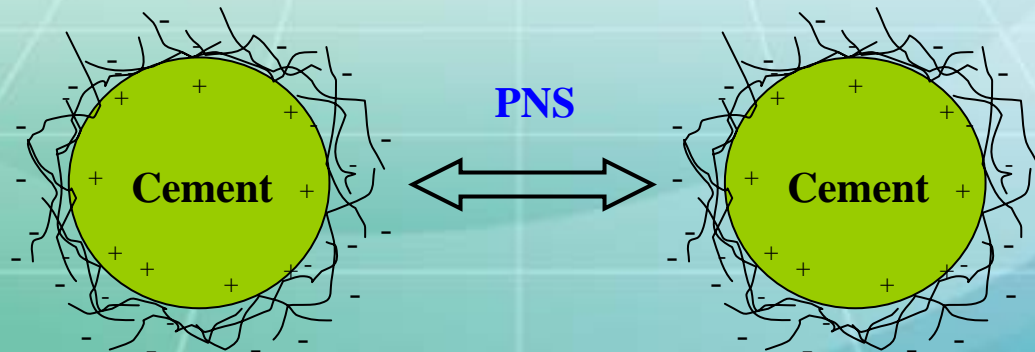




Dispersion mechanism of PC



dispersion by the steric repulsion



electrostatic repulsion

PC(superplasticizer) Dispersion Performance



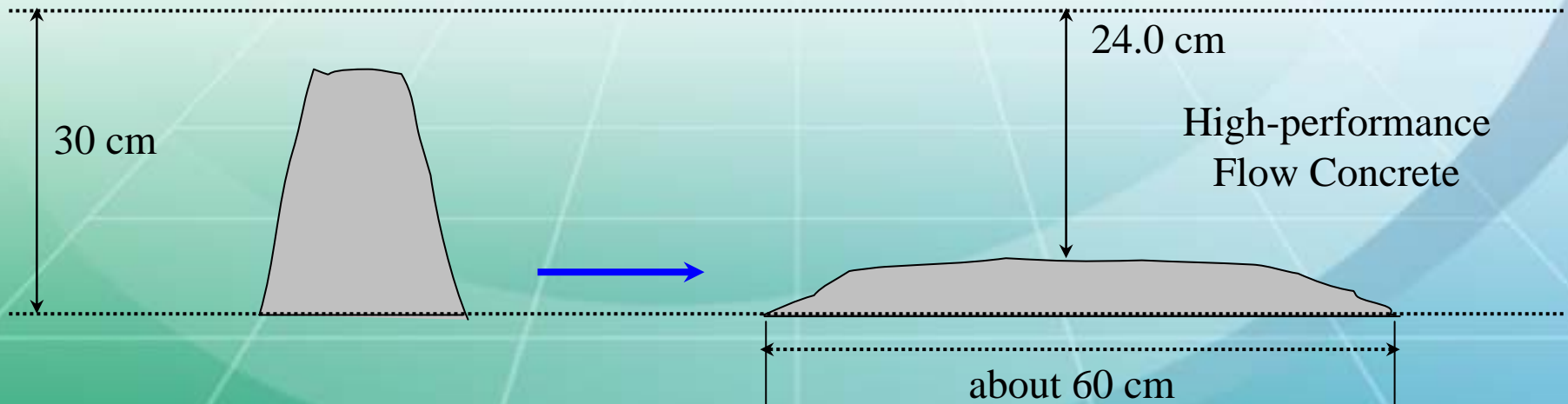
W/C 35 %, S/A 45 %, C 423 kg/m³, FA 47 kg/m³

Not added the PC

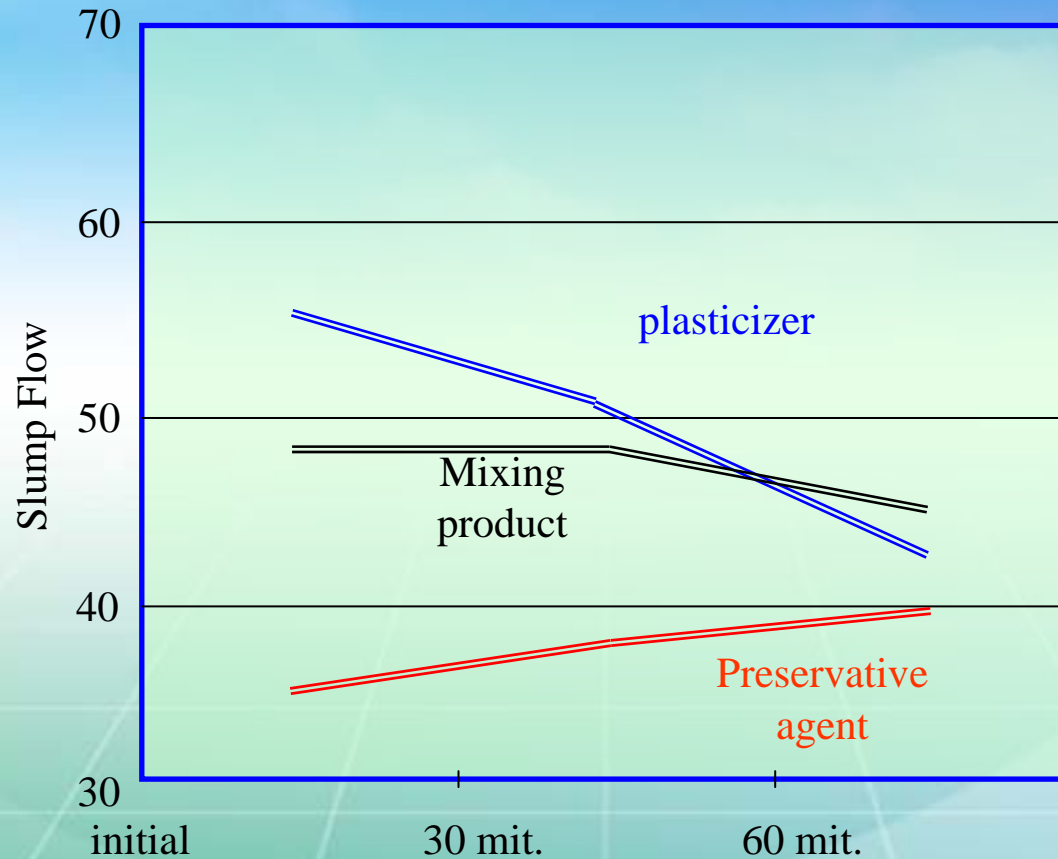
Added the PC (0.4 – 0.5 %)

Using 1/3 – 1/4 quantity of the PNS, Can be used to obtain the same liquidity

(Based on the same solid content)



The using effects of mixed PC superplasticizer and preservative agent



Mixing product performance means hourly average value of liquidity of plasticizer and preservative agent.

Depending on the ratio of mixing products, close to the plasticizer performance or preservative agent performance.

Product Range

