COMPLEX S-29

Hardening and Fast-Setting with Shine Enhancing Chemical

PRODUCT TYPE	Multi-function admixture for cement-based products	**ORIGIN**	China
MAIN FUNCTIONS	Workability • Strength development • Water-resistance support • Glazing	**APPLICATION**	Tiles, blocks, bricks & concrete products

1. Product Description

Complex S-29 is a specialized admixture/additive for cement, mortar and concrete-based products. It is intended to improve mix workability and support strength development and water resistance when used with a properly designed mix. It is particularly suitable for manufactured concrete products where surface appearance, handling properties and durability are important. The product used in pavement and parking tiles, hollow concrete blocks, fly ash bricks and other compatible cement-based products.

2. Key Benefits

FEATURE	FUNCTION / BENEFIT
Improved workability	Supports smoother mixing, easier placing/compaction and more consistent production.
Strength support	Contribute to improved strength when dosage, water content, curing and mix design are properly controlled.
Water-resistance support	Helps support reduced water penetration in a suitable formulation; performance depends on the complete mix and curing.
Surface finish	Help produce a denser, more uniform surface and enhance the appearance of colored concrete products.
Pigment compatibility	High Compatibility with various types of industrial color

3. Typical Applications

- Pavement and parking tiles, breeze block including colored or decorative concrete tiles
- Hollow concrete blocks and other precast concrete units
- Fly ash bricks and compatible cement-based masonry products
- Cement mortar and selected concrete mixes
- Suitable to make ready-mix concrete, self-compact concrete
- Used in self-leveling flooring materials and grout
- Used to make high strength gypsum products

4. Technical Data

PARAMETER	TYPICAL / AVAILABLE DATA
Appearance / physical form	Liquid
Color	Reddish Brown
Chemical composition	PCE Based
Density / specific gravity	1.04-1.14
pH value	7 - 9
Solid content	Nill
Compressive strength effect	Increase strength
Glaze effect	Increase Shinning
Chloride content	≤0.11%
Shelf life	24 months

5. Recommended Use & Mixing Procedure

• **Preliminary approach:** Add Complex S-29 at an usual dose 300 ml may vary depending on specific application.
May require up to 1500 ml as mentioned earlier depending on using purpose.

• Maintain a consistent cementitious material ratio, aggregate grading, pigment dosage and water content. Do not add excess water to improve workability.

• Run trial batches and compare control and treated mixes for workability, demolding, surface finish, compressive strength and water absorption. Use the applicable local or project test standards.

•

6. Storage, Handling & Safety

Store in the original, tightly closed and clearly labelled packaging in a dry, protected area. Protect from excessive heat, freezing and contamination. Avoid eye and prolonged skin contact. Use suitable gloves, eye protection and normal dust/splash precautions. Consult the product Safety Data Sheet (SDS) for first aid, spill response and disposal guidance.

7. Quality Control & Disclaimer

The stated functions are general intended-use descriptions. Results depend on cement type, mix proportions, water/cement ratio, aggregates, pigments, production method, compaction and curing. Before commercial use, confirm the product specification, compatibility, dosage and performance through field trials.