

UNIVER ES-A50

High performance new generation superplasticizer

UNIVER ES-A50 is PCE that has different chemical structure from typical PCE. It is designed for high early compressive strength concrete. So it is the best choice for cold season construction as well as precast concrete. Especially, it makes low stickiness concrete with good workability and shows stable performance at hot temperature as well as high alkali condition.

Physical Properties

Physical Properties of UNIVER ES-A50	
Appearance	Colorless
Odour	Slight
Total Solid Contents, %	50%(w/w), approx
pH(undiluted)	3.5
Specific Gravity	1.096 (25°C)
Viscosity, Brookfield Viscometer, cps	600 (25°C)

Features

- Faster turnover of forms due to accelerated early strength development
- Reduces finishing labor costs due to optimized set times
- Use in fast track construction
- Low stickiness / Good workability

Advantages

- Concrete production at cold temperatures
- Applicable for Pre-cast concrete
- High compressive strength by low W/C ratio
- Reduction of setting time and shows early strength on concrete
- Stable performance at high temperature and alkali

Guidance for use

■ Dosage

UNIVER ES-A50 has a recommended dosage range of 0.3 ~ 1.0 litres/100 kgs of binders on a basis of undiluted solution. It is well-soluble in water and we recommend to dilute it as your application. The optimum dosage of UNIVER ES-A50 may depend on specific requirements of concrete properties and materials. So, it is determined by trials using the materials and conditions.

■ Compatibility

UNIVER ES-A50 is compatible with all of PCE products.

To achieve either higher water reduction or longer retention, you may blend with other PCE which has its specific properties.

Storage and Handling

UNIVER ES-A50 should be stored between 0°C to 40°C. If stored in original unopened containers it will have a shelf life of 12 months. If ES-A50 become frozen, the properties of ES-A50 can be homogenized by thorough agitation of the completely thawed product.

Packaging

UNIVER ES-A50 is available in bulk supply, 1000Kg/IBC or 200kg/drum

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