

UNIVER ES - WL 45

High performance new generation superplasticizer

Univer ES-WL 45 is PCE that has excellent early compressive strength development. Hence, it is adequate for natural curing application. It is the best choice for cold season construction as well as precast concrete.

Physical Properties

Physical Properties of UNIVER ES-WL 45	
Appearance	Faint Light Yellow
Odour	Characteristic Odour
Total Solid Contents, %	45%(w/w), approx
pH(undiluted)	5.0
Specific Gravity	1.084
Viscosity, (Brookfield Viscometer, cps)	550

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
- Natural Curing Application

Advantages

- Concrete production at cold temperatures
- Applicable for Pre-cast concrete
- High compressive strength by low W/C ratio
- Reduction of setting time

Guidance for use

■ Dosage

UNIVER ES-WL 45 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-WL 45 may depend on specific requirements of concrete properties and materials. So, it is determined by trials using the materials and conditions.

■ Compatibility

UNIVER ES-WL 45 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.

Do not use blending with NSFC base superplasticizer.

Storage and Handling

UNIVER ES-WL 45 should be stored at room temperature and it should be avoided from direct sunlight.

If stored in original unopened container, it will have a shelf life of twelve (12) months. If product is frozen, please agitate it slowly until melting again.

Packaging

UNIVER ES-WL 45 is available in bulk supply, 1,000Kg/IBC or 200kg/drum