

# UNIVER WS-LSM

## High performance new generation superplasticizer

Advanced polycarboxylate based superplasticizer for high performance concrete

UNIVER WS-LSM is an advanced polycarboxylate polymer based superplasticizer which can be used in the production of high-performance concrete. Compared to traditional superplasticizers, UNIVER WS-LSM has more powerful dispersing effect and shows high water reduction with excellent fluidity retention performance without causing retardation. Especially, UNIVER WS-LSM is designed for improving workability in treatment. So it shows powerful advantages being used in the production of high fluidity concrete and high strength concrete having low W/C ratio.

### Physical Properties

Physical Properties of Univer WS-LSM	
Appearance	Light yellow liquid
Odour	Characteristic
Total Solid Contents, %	50%(w/w), approx
pH(undiluted)	5.9
Specific Gravity	1.112 (25℃)
Viscosity, Brookfield Viscometer, cps	330 (25℃)

### Applications

The excellent dispersing effect makes it possible to give extremely high water reductions. Using UNIVER WS-LSM is the best choice for high strength concrete and pre-cast.

- High-performance concrete
- High-strength concrete
- Pre-cast plants
- Self-compacting concrete

### Advantages

- High strength concrete by reducing W/C ratio.
- Reduction of labor and energy costs by high workability of concrete
- Higher durability from improved strength

### Typical dosage

The recommended dosage range of UNIVER WS-LSM is 0.2~1.0 liters/100 kg of binders. But the optimum dosage of UNIVER WS-LSM may depend on specific requirements of concrete properties and materials. The optimum dosage of UNIVER WS-LSM should be determined by trials using the materials and conditions.

### Storage and Handling

UNIVER WS-LSM 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 WS-N become frozen, the properties of WS-LSM can be homogenized by thorough agitation of the completely thawed product.

### Packaging

UNIVER WS-LSM is available in bulk supply, 1100Kg/IBC or 230kg/drum