

# UNIVER WS-N

High performance new generation superplasticizer

Univer WS-N is advanced polycarboxylate based superplasticizer for high performance concrete

Univer WS-N is a high range water reducing polycarboxylate polymer which performs outstanding water reducing effect.

It is designed for the need to improve the initial compressive strength by high water reducing rate. It shows a normal stickiness of concrete.

Univer WS-N would be recommendable to be used as a robust PC for a different type of cement quality. It is also very compatible with other additives such as SG.

## Physical Properties

Physical Properties of UNIVER WS-N	
Appearance	Light brown liquid
Odour	Slight
Total Solid Contents, %	50%(w/w), approx
pH(undiluted)	6.5
Specific Gravity	1.13
Viscosity, Brookfield Viscometer, cps	600

## Applications

UNIVER WS-N is the best choice for

- 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
- Reduction of steaming time or temperature
- Less vibration required
- Higher durability from improved strength

## Typical dosage

The recommended dosage range of UNIVER WS-N is 0.2~1.0 liters/100 kg of binders.

But the optimum dosage of UNIVER WS-N may depend on specific requirements of concrete properties and materials. The optimum dosage of UNIVER WS-N should be determined by trials using the materials and conditions.

## Storage and Handling

UNIVER WS-N 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-N can be homogenized by thorough agitation of the completely thawed product.

## Packaging

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

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