

# EUNICEM P20

Mid-Range Concrete Plasticizer



### Description

EUNICEM P20 is a high performance liquid concrete plasticiser. It is used to improve the workability of concrete, and effect water reductions while producing excellent workability retention characteristic, throughout a wide range of cement contents.

EUNICEM P20 is formulated from carefully selected raw materials and is manufactured under controlled conditions to give a consistent product. It is based on high performance modified lignosulphonates combined with naturally derived polymers. EUNICEM P20 conforms to Type D materials of ASTM designation C494 and complies with BS 5075, Part 1.

### Advantages

- EUNICEM P20 improves the workability of concrete and provides improved slump retention, even at high ambient temperatures.
- Allows greater time for concrete placement and compaction.
- Effective over a wide range of cement contents.
- Improves water tightness, impermeability and durability of concrete.
- Is employed to modify concrete mix designs, to achieve cement economies.
- Enhances pumpability, characteristics, reduces bleeding.

### Typical Properties

Appearance: Dark amber liquid

Specific Gravity: 1.20 at 20°C

Air Entrainment: Air content of concrete mixes will normally be increased by between 1% and 2%.

• Chloride Content: Ni

Storage Life in Manufacturer's Drums: 12 months from date of manufacture.

Bulk Storage: 12 months from date of delivery.

### Compatibility

With cements: EUNICEM P20 can be used with all types of Portland, Pozzolanic, and Blast Furnace cements. It can also be used with fly ash and microsilica.

With other admixtures: EUNICEM P20 should not be premixed with other admixtures. The performance of the material may be affected by the presence of other chemicals and we would recommend that all admixtures be added separately to the mix.

### Method of Use

EUNICEM P20 is supplied ready for use. It should be added to concrete mixes during the mixing process, at the same time as the water or the aggregates. It should not be added directly to the cement. No extension of normal mixing time is necessary.

### Addition Rates Range

0.16% - 1.20% by weight of cement. The performance of EUNICEM P20 is best assessed after preliminary tests in the laboratory and/or on site, using the actual mix constituents under consideration to determine the optimum dosage and effect on concrete properties such as ultimate compressive strength gains, Setting times, workability retention, etc. when these are of consequence. As a guide to these trials, a dosage of 160ml-1200ml EUNICEM P20 per 100kg cement is recommended. For advice and assistance with your trials, we recommend you consult our technical department.

### Effects of Overdosing

Overdosing of EUNICEM P20 will generally produce a considerable increase in workability, air entrainment, and setting times (initial and final). In such cases, of overdosing, provided the

concrete is properly cured, the ultimate strength will generally be higher than for normal concrete. The effects of overdosing will also be exaggerated when Sulphate resisting cement is used.

### **Dispensing**

It is preferable that liquid admixtures for concrete should be introduced into a mixer by means of automatic dispensing equipment details of which are available upon request.

### **Health and Safety**

For further information see the EUNICEM P20 Material Safety Data Sheet, or consult our technical department.

### **Packaging**

EUNICEM P20 is supplied in nominal 1000 litre returnable containers. Alternatively, bulk deliveries can be arranged.

### **Storage**

EUNICEM P20 should be stored in sealed conventional containers and protected from the elements.

### **Technical Service**

The Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

### **Contact Information**

Al-Faiha for Engineering Products  
techsupport@alfaihaengineering.com  
www.alfaihaengineering.com

v01-02-2022