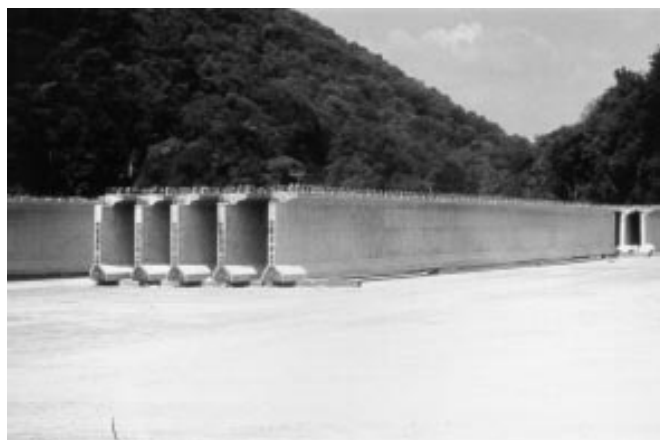


RHEOBUILD® 3000FC

High-range water-reducing admixture



DESCRIPTION:

RHEOBUILD® 3000FC ready-to-use high-range water-reducing admixture is a new generation of admixture based on GLENIUM™ Technology. **RHEOBUILD 3000FC** admixture can be used to produce rheoplastic concrete. Rheoplastic concrete flows easily, maintaining workability for long periods of time without any affect on setting time. **RHEOBUILD 3000FC** admixture meets ASTM C494 requirements for Type A, water-reducing, and Type F, high-range water-reducing admixture.

RECOMMENDED FOR:

- Use in concrete where faster setting characteristics, enhanced surface appearance and accelerated strength development is desired
- Use in all concrete where control of workability and setting time is critical
- Use in concrete where high-range water reduction (12 to 40%) is necessary
- Use in concrete where high early and ultimate strengths and increased durability is required

FEATURES/BENEFITS:

- Reduced water content for a given slump
- Provides linear water reduction throughout the recommended dosage range
- Produces a cohesive and non-segregating concrete mixture
- Faster setting times and strength development
- Increased compressive strength and flexural strength performance at all ages
- Results in lower production cost due to faster placement, enhanced finishing, and reduced curing costs

PERFORMANCE DATA:

MIX DATA

658 lb of Type III cement per cubic yard (390 kg/m³); slump, 6 in. (150 mm); Air content, 5 to 6%; Concrete temperature, 65 °F (18 °C); Curing temperature, 65 °F (18 °C).

Compressive Strength Performance

	8 h		12 h	
	psi	MPa	psi	MPa
Conventional Superplasticizer	390	2.7	3090	21.2
RHEOBUILD 3000FC	1230	8.5	4100	28.2

MIX DATA

658 lb of Type I cement per cubic yard (390 kg/m³); Slump, 8 to 9 in. (200 to 225 mm); Non-air-entrained concrete; Concrete temperature, 70 °F (21 °C); Dosage rate of admixtures adjusted to obtain 30% water reduction.

Setting Time Performance

Mix	Initial set h:min	Difference h:min
Plain	3:58	----
Conventional Superplasticizer	7:15	+3:17
RHEOBUILD 3000FC Admixture	4:42	+0:44

NOTE: The data shown is based controlled laboratory tests. Reasonable variations from the results shown here may be experienced as a result of differences in concrete making materials and jobsite conditions.

QUANTITY TO USE:

RHEOBUILD 3000FC high-range water-reducing admixture has a recommended dosage range of 4 to 6 fl oz per 100 lb (260 to 390 mL per 100 kg) of cement for most concrete mixes. The dosage range is applicable to most concrete mixes using average concrete ingredients. However, variations in job conditions and concrete materials, such as silica fume, may require dosage rates outside the recommended range. In such cases, contact your local Master Builders representative.

RATE OF HARDENING:

RHEOBUILD 3000FC admixture is formulated to produce normal to accelerated setting characteristics throughout its recommended dosage range while providing enhanced workability retention.

Setting time of concrete is influenced by the chemical and physical composition of the basic ingredients of the concrete, temperature of the concrete, and climatic conditions. Trial mixes should be made with actual production materials to determine the dosage required for a specified setting time and a given strength requirement.

DIRECTIONS FOR USE:

Unlike conventional superplasticizers, **RHEOBUILD 3000FC** admixture can be added with the initial mix water or delayed until the final water is added to the mix.

NOTE: For directions on the proper evaluation of the **RHEOBUILD 3000FC** admixture in specific applications, contact your local Master Builders representative.

PACKAGING:

RHEOBUILD 3000FC admixture is supplied in 55 U.S. gal (208 L) drums, 275 U.S. gal (1,040 L) totes and by bulk delivery.

TEMPERATURE PRECAUTION:

If **RHEOBUILD 3000FC** admixture freezes, thaw at 45 °F (7 °C) or above and completely reconstitute by mild mechanical agitation. **Do not use pressurized air for agitation.**

NON-CHLORIDE, NON-CORROSIVE:

RHEOBUILD 3000FC admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, pre-stressed concrete or concrete placed on galvanized steel floor and roof systems. Neither calcium chloride nor any chloride-based ingredients are used in the manufacture of **RHEOBUILD 3000FC** admixture. In all concrete applications, **RHEOBUILD 3000FC** admixture conforms to the most stringent or minimum chloride ion limits currently suggested by construction industry standards and practices.

For additional information on **RHEOBUILD 3000FC** admixture or its use in developing a concrete mixture with special performance characteristics, contact your local Master Builders representative.

RELATED BULLETINS:

Material Safety Data Sheet --- **RHEOBUILD 3000FC ADMIXTURE**

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