

# HA-100

## Liquid form Accelerating Admixture

### Description:

**HA-100** ready-to-use, liquid admixture is formulated to accelerate time of setting and to increase early concrete strengths. **HA-100** admixture does not contain calcium chloride and is formulated to comply with **ASTM C 494/C 494M Type C**, accelerating, admixture requirements.

### APPLICATION

Recommended for use in:

- Reinforced, precast, pumped, flowable, lightweight or normal weight concrete and shotcrete (wet mix)
- Concrete placed on galvanized steel floor and roof systems which are left in place
- Prestressed concrete
- Fast-track concrete construction
- Concrete subject to chloride ion constraints
- 4x4™ Concrete
- Self-consolidating concrete (SCC)
- Pervious concrete
- Masonry Mortar

### Benefits

- Earlier finishing of slabs – reduced labor costs
- Reduced in-place concrete costs
- Reduced or eliminated heating and protection time in cold weather
- Earlier stripping and reuse of forms
- Superior finishing characteristics for flatwork and cast surfaces

### Features

- Accelerated setting time across a wide range of temperatures
- Increased early compressive and flexural strengths

### Performance Characteristics

Setting time (h:min))	@ 50 °F (10 °C)	
	Initial Set (h:min)	Difference
Plain	13:44	REF
Kenal <b>HA-100</b> admixture @		
› 20 fl oz/cwt (1,300 mL/100 kg)	7:11	-6:33
› 40 fl oz/cwt (2,600 mL/100 kg)	6:05	7:39

Setting time (h:min))	@ 50 °F (10 °C)	
	Initial Set (h:min)	Difference
Plain	8:18	REF
Kenal <b>HA-100</b> admixture @		
› 20 fl oz/cwt (1,300 mL/100 kg)	4:59	-3:19
› 40 fl oz/cwt (2,600 mL/100 kg)	4:18	-4:00

### Guidelines For Use

#### Dosage

Concrete: The recommended dosage range for **HA-100** admixture is 10 – 45 fl oz/cwt (0.65 – 2.9 L/100 kg) of cementitious materials for most concrete mixtures using average concrete ingredients. Because of variations in job conditions and concrete materials, dosage rates other than the recommended amounts may be required.

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In such cases, contact your local sales representative. The maximum dosage of **HA-100** admixture in potable water applications that require the use of NSF Certified products is 30 fl oz/cwt (2.0 L/kg) of cementitious materials. For specialty concrete mixtures such as 4x4 Concrete, dosages up to 100 fl oz/cwt (6.5 L/100 kg) may be required.

Masonry Mortar: The recommended dosage range for use of **HA-100** admixture in masonry mortar is 12 – 30 fl oz/cwt (0.78 – 1.95 L/100 kg) of masonry cement, depending on the ambient temperature and degree of acceleration desired.

The **HA-100** admixture should be added directly to the mix water prior to the other mortar ingredients. The mortar should be mixed thoroughly for 2 – 3 minutes and placed before it stiffens excessively. Do not add **HA-100** admixture directly to the masonry cement.

When temperatures after placement of mortar are expected to be at or below 25 °F (-4 °C) for 24 hours or longer, supplemental protection measures such as artificial heating are recommended in addition to the use of **HA-100** admixture.

**Clean Up:** Clean all tools and equipment with water.

## Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: **HA-100** admixture will neither initiate nor promote corrosion of reinforcing steel in concrete. Compatibility: **HA-100** admixture may be used in combination with any Master Builders Solutions admixtures. When used in conjunction with other admixtures, each admixture must be dispensed separately into the mixture.

## Storage and Handling

Storage Temperature: **HA-100** admixture should be stored above freezing temperatures. If **HA-100** admixture freezes, thaw at 35 °F (2 °C) or above and completely reconstitute by mild mechanical agitation. Do not use pressurized air for agitation. Shelf Life: **HA-100** admixture has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life of **HA-100** admixture has been exceeded.

## Packing

**HA-100** is available in IBC, 250kg drums and in bulk tanks upon request.

## Technical Support

**Kenal Chemical** offers full technical support package to specifiers, contractors and end users, as well as technical assistance on site and after sales consultations.

Ensure the container is available for the medical attendant to examine for any relevant instructions and content details. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labelling.

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