



Hydraair

Air-Entraining Agent

Description

Hydraair is a liquid air-entraining agent for use in all types of concrete and mortar mixes. It is supplied as a chloride free liquid ready to use in drums.

Object

- Floors in cold stores and cold rooms
- Mass concrete structures including pre-cast structures of all kinds
- Aprons and hard standings
- Dams and reservoirs
- Runways and taxiways at airports

Advantage

- Increased frost/thaw resistance by providing for a denser concrete. Should always be used in concrete for the construction of concrete floors and other structures in cold stores
- Improves workability of concrete and mortars
- Increases cohesion and reduces risk for segregation of mixes
- Allows for lower slump/water-cement ratios and thus increased compressive strength
- Does not affect setting time if overdosed

Standard

- Meets • A.S.T.M. C260
• BS5075, Part 2

Instruction for Use

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

The amount of Hydraair required is dependent on the characteristics of the concrete or mortar mix, together with the degree of air entrainment required. Factors which can affect this are:

- Nature and grading of the aggregates, particularly fine aggregates.
- Cement content and type of cement used.
- Water/Cement ratio.
- Workability of the mix.
- Temperature.
- Type and efficiency of mixing equipment.

As a guide to these trials, an addition rate of 30 - 45 ml. Hydraair per 50 kg cement is recommended. In a normal concrete of 6:1 Aggregate/cement ratio, this addition should lead to the entrainment of 3% to 6% of air. This conforms to the level of requirements of the M.O.T. specification for road and bridge works.

For advice and assistance with trials we would recommend that ACT is consulted. The air content of air entrained concrete should be regularly checked, the most widely used method being the pressure method as described in BS.1881: 1970 and A.S.T.M. Method C231.

Handing

- Hydraair is formulated from chemicals which present no fire or health hazards. If, however, it is spilt, the floor will be slippery and should be washed down immediately with cold water.
- Compatibility with cements : Hydraair can be used with all typed of Portland cement including sulphates resisting cements. For use with special cement we recommend that you consult ACT.
- Compatibility with other admixtures: Hydraair should not be pre-mixed with other admixtures.
- The performance of the material may be affected by the presence of other chemicals, and we would recommend that ACT be consulted in such circumstances.

Characteristic

Appearance	: Brown Liquid
Density	: 1.04 ± 0.01
Viscosity	: 2.15 cps
Freezing Point	: - 5°C
Flash Point	: non-flammable

Packaging

In drums of 210 L., by road tanker car.

Precaution

Non-toxic. In case of contact with skin, wash with clean water. In case of contact with eyes, wash with clean water and immediately consult eye-doctor.

Act (Thailand) Co., Ltd.

Address : 19 Moo 1 Kubangluang
Lardlumkaew Pathumthai 12140
Tel. : (66)-0-2979-4446-9 , (66)-0-29794936-9
Fax. : (66)-0-2979-4445
Email : info@actthai.com
Web Site : <http://www.actthai.com>

Non-warranty. The information contained herein is believed to be reliable to the best of our knowledge. However, all recommendations are made without guarantee of performance and with warranty of freedom from legal responsibility including patent liability on the part of Act (Thailand) Co., Ltd
