



Hydragrout HAC

High Alumina Cement Non Shrink Grout

Description

Hydragrout HAC is a high alumina cement non shrink grout was originally designed for sea water corrosion and thermal resistance.

Hydragrout HAC is supplied as a ready-to-use dry powder, requiring only the addition of water to produce a free flowing, non-shrink grout which will maintain its original volume after curing.

Object

Hydragrout HAC is designed for sea water corrosion resistance because of the main characteristics which are

- Unique hydration process without soluble free lime.
- Rapid hardening necessary to work between low tide and high tide.
- Hardening in cold environments and under water.
- Abrasion resistance to sand and to waves

Hydragrout HAC is not only have the chemical resistance properties but also resistance to high temperature resistance and thermal shock because of the main characteristics which are

- High early strength mortar which maybe put into service 24 hr. after placing if a gradual heating schedule is followed
- Stability during thermal cycling
- High temperature strength and resistance to thermal shock

Advantage

- Excellent flow properties.
- High compressive, flexural and bond strengths.
- Free from Chlorine and corrosive effects.
- Dimensional stability.
- No bleeding.
- Non-toxic.

Instruction for use

All concrete surface shall be cleaned and roughened. All old concrete surfaces shall be cut back to sound concrete and all soft, cracked or oily concrete shall be removed. Metal surfaces shall be free from scale, rust, oil, and grease. Mixing water is added to the premixed powder to suit the desired consistency.

Mixing 16% water of powder to the premixed powder to suit the desired consistency.

When grouting areas of more than 3” in depth, add up to 25% by weight washed pea gravel that is 3/8” or less in size.

Mixing Equipment

Use a paddle type mortar mixer or a suitable conventional drum mixer; the use of a paddle type mixer will allow less water requirement to achieve a given consistency and a reduction in any tendency of the mix to lump and to become segregated.

Characteristics

Appearance	Dark Gray powder
Bulk Density	1.8 kg/m ³
Shelf Life	1 yr. under unopen bag
Packaging	25 kg./bag

Application

Ensure sufficient material is available to complete the work and obtain a continuous fill. Pour from one side only to avoid air entrapment. Keep a head on the grout to promote flow. Use cable or chain to make sure that all cavities are filled, When grouting areas of more than 3” in depth, add up to 25% by weight washed pea gravel that is 3/8” or less in size curing. After the grout has acquired its initial set cure by keeping exposed surfaces moist for at least 48 hours.

Cleaning

Clean all tools and equipment with clean water immediately after use. Hardened material can only be removed mechanically.

Technical Data

● Water	16 %
● Flow (J14-Funnel), s :	11.05
● Bleeding :	None
● Shrinkage :	None
● Expansion ,% :	0.05
● Compressive Strength	
6 Hr. :	300 ksc.
24 Hr. :	460 ksc.
28 Days :	800 ksc.

Storage

Hydragrout HAC should be storage dry and in sealed packaging.

Precaution

Hydragrout HAC contains cement and is alkaline. Suitable precautions should be taken to minimize direct contact to skin. Should the material enter the eyes, rinse immediately with clean water and seek medical attention.

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