

Technical Data Sheet

Date of compilation: 20/03/2023

ARC FROSTPROOFER & RAPID HARDENER

DESCRIPTION

To facilitate all year round construction where ambient temperatures may normally cause a lull in the rate of production. A premium grade, chloride-free, frost proofer and rapid hardener designed to allow the use of mortar, concrete, screed and renders in freezing conditions as well as accelerating the rate of cure.



USES

ARC FROSTPROOFER AND RAPID HARDENER increases the rate of hydration and accelerates the setting and hardening of all mixes based on Portland Cement. It will also provide frost protection during setting on sub-zero temperatures or provide rapid-set at normal temperatures. When mixed with neat, fresh cement it can be used for leak-plugging.

APPLICATION

Add between 1 and 5 litres of Arc Frostproofer & Rapid Hardener per 25kg of cement. The quantity required is ambient temperature dependant. Arc Frostproofer & Rapid Hardener should be added to the gauging water and water reduced by the relevant amount. All materials must be free from ice and the temperature of the mix must not be below 4°C. Normal precautions must be observed to protect from frost after laying. For plugging pressure leaks mix neat with Portland Cement to a putty like consistency before pressing into the hole immediately as this will begin to cure within 2-5 minutes of mixing under normal conditions.

LIMITATIONS

Not recommended for use in structural concrete. All work should be carried out in line with current industry guidance on cold weather working. All materials and surfaces must be free from ice and the temperature of the mix must be above 4°C prior to placing. After placing, all construction should be protected until minimum strength is achieved or until temperatures rise above freezing.

PROPERTIES

Property	Value
Flammability	Non Flammable
pH	7-9
Composition	Calcium nitrate in water
Solubility	Soluble in water
Colour	Yellow

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Chloride	<0.1%
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STORAGE & PACKAGING

Store in cool, dry conditions between 5°C and 30°C. Protect from frost and high temperatures and keep out of direct sunlight. Shelf life is up to 2 years when stored according to manufacturers instructions. Supplied in 5lt and 25lt containers.

DOSAGE

1-5L for every 25kg of Cement - ambient temperature dependent.

HEALTH & SAFETY

- Non-flammable
- Avoid eye contact, wear eye & face protection
- Avoid prolonged contact with skin, wear protective clothing & gloves as could cause irritation
- Do not ingest
- Thoroughly wash hands with soap and water after use
- Keep out of reach of children
- Some people are more sensitive to chemical products than others. If irritation occurs discontinue use

See separate material safety data sheet for full handling, use & storage.

DISPOSAL OF CONTAINERS

Do not leave empty containers where residue could be harmful to children, animals or the environment. Replace lids and remove any containers to a central disposal point in accordance with local regulations.

NOTE

All products should be sold in accordance with the manufacturer's instructions. The manufacturer cannot be held responsible where conditions of use are beyond our control. Full information and advice is freely available from our Technical Services Department e-mail technical@arcbuildingproducts.ie. Whilst any information contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents, or distributors, as the conditions of use and any labour involved are beyond our control. Our warranty is therefore limited to the quality of supplied product.