

# Technical Data Sheet

Date of compilation: 11/08/2021

## 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 mortars/concretes in freezing conditions as well as accelerating the rate of cure.



### USES

ARC Frostproofer and rapid hardener increases the rate of hydration, accelerating the rate of cure as well as allowing a reduction in the total volume of gauging liquid required, therefore, improving the frost resistance of the mortar/concrete. Due to the final mortar/concrete being more dense, the final result is an improved oil and water resistant product. When mixed neat with Portland Cement it can be used to plug holes caused by pressure leaks. All mixes containing Liquid Frostproofer & Rapid Hardener will also benefit from improved workability, therefore a separate mortar plasticiser is not required.

### APPLICATION

Add to gauging water to the ration of 2½-5 litres of Liquid Frostproofer & Rapid Hardener to each 50kgs of cement and reduce the total volume of gauging water accordingly. After laying of the mortar/concrete take usual precautions for the protection against climatic conditions. 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

For use below 4°C hot water is recommended.

### PROPERTIES

Property	Value
Flammability	Non Flammable
PH	<4
Composition	Calcium nitrate in water
Solubility	Soluble in water

# Technical Data Sheet

Date of compilation: 11/08/2021

## ARC FROSTPROOFER & RAPID HARDENER

### STORAGE & PACKAGING

Store in cool, dry conditions between 5 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.

### COVERAGE

2½ -5lt for every 50kgs of Cement.

### HEALTH & SAFETY

- Non-flammable
- Low hazard free product, safe for normal use
- 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](mailto: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.