

# Snowcem

## BREATHABLE MINERAL PAINTS

### TECHNICAL DATA SHEET: SNOWCEM PLUS MASONRY PAINT

## NATURALLY BREATHABLE ENVIRONMENTALLY FRIENDLY MINERAL PAINT

#### PRODUCT DESCRIPTION

Snowcem Plus is a premium weather-resistant mineral paint. Supplied as a powder Snowcem Plus is mixed with water to form an easily applied coating.

Environmentally sustainable and naturally breathable, Snowcem Plus has no added plastic polymers or harmful inorganic chemicals and is made from a carefully balanced composition of natural minerals.

Snowcem Plus cures and hydrates to form a strong, permanent bond to the substrate, giving a tough, breathable and vapour permeable finish.

Because the paint forms a natural bond to the masonry surface, this allows the substrate to breathe, any excess moisture trapped within the walls is allowed to naturally pass through the paint and escape. This means Snowcem Plus will not peel, flake or blister.

In contrast, polymer-based masonry paints generally form a non-porous barrier and are therefore prone to allowing moisture to build between the substrate and the paint. Moisture is trapped and can build up behind the painted surface which can then expand and contract due to heat or freeze/thaw and eventually the paint to delaminate from the substrate, this results in the paint peeling, flaking and blistering from the surface.

Snowcem Plus is safe for users and the environment, with zero Organic Compounds (VOC's), tested according to IS 15489: 2004. It also contains no heavy metals or hazardous substances such as formaldehyde, phenolic compounds and benzene.

Snowcem Plus has a high PH which is resistant to Algea and fungal attack, colours are permanent and UV resistant.

Snowcem Plus is durable on a wide range of materials, including pre-cast and in-situ concrete, GRC, concrete blocks, cement render, cement-lime renders and natural stone. It can also be used on plasterboard and cement fibre boards.

#### PRODUCT FEATURES

- Permanent/Non-flaking coating.
- High vapour permeability/breathability.
- Zero polymer content.
- Suitable for a wide range of surfaces.
- Can be used internally as well as externally
- Resists frost and water related damage.
- Can fill rough and open textures.
- Easy mixing and application.
- UV Resistant.
- Ideal for coastal and marine environments.
- Safe to use, non-toxic and solvent free with no added VOC's

#### TECHNICAL DATA

MATERIAL PROPERTIES	VALUE
Hydration/curing time	Determined at 28 days (Typical from tests)
Water Vapour Permeability	High (>150) - SD Value <0.01
Cube strength (28 days)	35.5 Mpa (Nmm <sup>2</sup> )
Pull off strength on 25 N/mm <sup>2</sup> concrete substrate	2.3 MPa (Nmm <sup>2</sup> ) (concrete failure)
Hardness (Mohs Scale @ 28days)	5
Sorptivity	0.12 mm/min <sup>0.5</sup>

APPEARANCE	OBSERVATION
Form	Fine Powder
Colour	White/Colour Choice
Smell	Odourless

PHYSICAL DATA	VALUE
Bulk density (Powder)	1295 kg/m <sup>3</sup>
pH (1:1 powder:water)	10-11
Melting point	Not Applicable
Boiling point	>1000 °C
Decomposition temperature	Not Applicable
Flash point	Not Applicable
Explosive properties:	Not Explosive

#### INSTRUCTIONS FOR GENERAL USE

##### APPLICATION OF PRIMER COAT

Confirm surface is free of all weak and loose deposits and contamination such as dust, dirt, moss, lichen, grease, oil, sealer and anything that could affect the coating application. consult Northern Paints and Coatings for cleaning advice if necessary.

**We advise that all surfaces should be primed with Cemprover stabilising solution before the application of the paint.**

Confirm ambient temperatures will remain within 4°C to 30°C during any application. Also avoid overnight freezing temperatures.

Cemprover can be diluted 50:50 with clean water. 1 coat of primer should be applied to all surfaces using a brush or roller.

Allow a minimum of 8 hours for the primer coat to cure before the application of the paint.

## INSTRUCTIONS FOR GENERAL USE (CONTINUED)

### MIXING THE PAINT

Mix the paint by volume using equal quantities of water and powder to mix the paint. (i.e 1 cup of water to one cup of powder for example).

Gradually add the paint powder to the clean water whilst thoroughly mixing with a low speed powered mixing paddle.

Avoid adding additional water to powder.

Continue mixing for 2 minutes ensuring all powder is thoroughly incorporated into the mix. If a thicker mix is desired add more powder at this stage and mix thoroughly, remembering that the paint will naturally thicken over time.

Let the mix stand for a further 2 minutes and then remix for 30 seconds.

### DOSEAGE

To mix the paint use equal volumes of Snowcem plus powder and water.

e.g 1KG of Snowcem Plus powder combines with 700ml of water to yield 1.4 Litres of Paint. This volume is typically sufficient to cover 7m<sup>2</sup> of a smooth even surface applying a single coat of paint. Consumption will depend on the porosity/ texture of the surface and the required finishing application method. The following table is illustrative using 1KG, 5KG and 10KG of Snowcem Plus powder.

POWDER	1 kg (0.7ltr)	5 kg (3.5ltr)	10 kg (7ltr)
WATER	0.7 ltr (700ml)	3.5 litres	7 litres
MIX	1.4 litres	7.0 litres	14 litres
COVERAGE	6.0-7.0 m <sup>2</sup>	30-35 m <sup>2</sup>	60-70 m <sup>2</sup>

### PAINT APPLICATION

We recommend applying a minimum of 2 coats of the paint. If the basecolour bleeds through then an additional coat may be required.

Apply first coat of paint evenly to the surface using a brush, an HVLP or compressor based spray system. Spray application can give the smoothest finish and the consistent thickness of paint.

If brush application is necessary it is essential to ensure the correct thickness of paint is applied evenly over the whole surface.

Allow 6-8 hours between coats under normal circumstances. A longer curing time may be necessary in cold and damp conditions.

Apply second coat of the paint and allow to fully cure.

Snowcem Plus takes a number of days to fully cure. During this process the paint may seem soft/dusty. This is completely natural and the paint will reach full hardness after 7 Days.

Note: After application on mixed substrates such as existing paints some initial colour variation may be visible. This is completely natural and will even out as the paint cures and hydrates. This effect can also be apparent when the paint has been applied to surfaces which have a high moisture content.

Clean all equipment with fresh water immediately after use. Dispose of all unused paint, let the paint cure and then dispose as for concrete/rubble.

### ADDITIONAL INSTRUCTIONS FOR HOT/HUMID CLIMATES

In hot/humid climates, algae and mosses should be removed prior to painting. A diluted domestic grade bleach can be an effective way of treating this, taking care to avoid contact with skin, eyes or inhaling. Keep surface wet with solution for 5 mins and allow to act for 30 mins before thoroughly washing down with water.

### PRIOR TO PAINT APPLICATION

In all cases, prepare the Snowcem Plus mix ready for use, thoroughly saturate surface with water and immediately commence painting. Spray water mist on the coated surface after 1 hour, if rapid drying is apparent. Application advice is available at [sales@snowcempaints.co.uk](mailto:sales@snowcempaints.co.uk) or by phone on 0333 772 7206.

### CHEMICAL PROPERTIES

Blended white portland cement, Lime and other natural minerals.

### PACKAGING

5kg and 10kg re-sealable buckets. Primer supplied in 5 Litre tubs.

### STORAGE & SHELF LIFE

Store in dry location in original bag/bucket at 5°C-30°C temperature. Do not stack bags more than 5 high.

### PERFORMANCE

When correctly applied on an appropriate, defect free surface, the coating can be expected to last up to 10 years.

### HEALTH & SAFETY

Snowcem Plus is a non-hazardous material for which safety measures are as for cement. It is slightly alkaline when freshly mixed. A material Safety Data Sheet is available on request.

<b>RESPIRATORY PROTECTION:</b>	Wear a mask and avoid forming a dust cloud when handling the powder.
<b>HAND PROTECTION:</b>	Wear PVC or rubber gloves.
<b>SKIN PROTECTION:</b>	Wear full overalls
<b>EYE PROTECTION:</b>	Wear protective goggles.
<b>IF SWALLOWED:</b>	Do not induce vomiting. Contact a doctor or a specialist if allergic reaction or ingested.

### KEEP OUT OF THE REACH OF CHILDREN & ANIMALS

### PRODUCT ASSISTANCE

Contact Snowcem Paints UK Ltd:

[sales@snowcempaints.co.uk](mailto:sales@snowcempaints.co.uk)  
or by phone +44(0)333 772 7206



HIGH STRENGTH



BREATHABILITY



SUPERIOR BRUSHABILITY

Important: The content of this documentation is based on our experience of the product. The company guarantees the quality of its products, but expressly declines any liability in the event of failure by the user to comply with the recommendations and conditions of use of said products, notably but not exclusively in the event of incorrect application including non-use of the company's 'Approved Application Tools', application by non-competent personnel, use of products not compatible with the company's products or bad weather conditions. For further information, refer to the material safety data sheet.

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P A I N T S

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