

# PRODUCT DATA SHEET

## SikaRep® Fine N

ONE COMPONENT, ECONOMICAL, POLYMER MODIFIED, PORE SEALER / FINISHING MORTAR

### DESCRIPTION

SikaRep® Fine N is a cementitious, silica fume containing, polymer modified one component pore sealer and finishing mortar.

Suitable for use in hot and tropical climatic conditions.

### USES

SikaRep® Fine N can be used as a:

- Pore sealer / finishing mortar on cementitious substrates
- Thin layer rendering and smoothing on horizontal and vertical areas in building and civil engineering construction, for external and internal finishing, etc.

- Levelling mortar on uneven substrates, and profiled concrete surfaces.
- Repair mortar to fill honeycombs, pores etc.
- Repair mortar for repair of small defects on edges and joint sides; to form and finish joints and coverings.

### CHARACTERISTICS / ADVANTAGES

- Easy to use
- Excellent workability
- Good mechanical strengths
- Can be applied by wet-spray method
- Non-corrosive
- Adjustable "creamy" consistency
- Economical

### PRODUCT INFORMATION

<b>Composition</b>	Polymer containing cementitious mortar with different additives
<b>Packaging</b>	25 kg bag
<b>Appearance / Colour</b>	Grey Powder
<b>Shelf life</b>	12 months from production date.
<b>Storage conditions</b>	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between 5 °C and 35 °C. Protect from direct sunlight, heat and moisture.
<b>Maximum Grain Size</b>	~0.1 mm

### TECHNICAL INFORMATION

<b>Compressive Strength</b>	<b>7 days</b>	<b>28 days</b>	(ASTM C109)
	w/p ratio = 0.30	~20 N/mm <sup>2</sup>	

## APPLICATION INFORMATION

Mixing Ratio	7.5 litres of water per 25 kg bag
Fresh Mortar Density	~1.90 kg/l
Yield	~17.0 litres per 25 kg bag
Layer Thickness	~0.3mm - 3.0mm in one single layer
Ambient Air Temperature	+5 °C min. / +40 °C max.
Substrate Temperature	+5 °C min. / +40 °C max.
Pot Life	~35 min (25 °C)

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Substrates must be properly cured, structurally sound, free of any loose or friable particles, clean, dry and free of any contaminants such as dust, dirt, oil, grease, cement laitance or efflorescence.

Depending on the substrate condition, contaminants should be removed from the surface. Perform adequate preparation techniques, such as water-jet washing or blastcleaning, in order to remove all traces of any materials that could reduce the product's adhesion to the substrate.

For applications in hot climates / environments and / or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to the product application, but avoid any ponding / standing water on the surface, which must not be damp to touch and not with a dark-matt / wet surface appearance i.e. it must be saturated surface dry (SSD).

### MIXING

SikaRep® Fine N can be mixed with a low speed (< 500 rpm) hand drill mixer or using a force action mixer. Pour the recommended water in a suitable, clean mixing container. While stirring slowly, add the powder to the water and mix thoroughly at least for 3 minutes to achieve required homogeneous consistency. The obtained mix should be very creamy, easily spreadable and thixotropic.

Do not add extra water or other ingredients after mixing. Normal tumble type concrete mixers are not suitable. Do not mix more material than can be placed within its pot life.

### APPLICATION

SikaRep® Fine N can be applied by trowel, spatula or wet spray. As soon as the mortar has started to set it can be smoothed by wooden or synthetic float, XPS block or sponge. No additional water should be used, as it may lead to surface discoloration.

### CURING TREATMENT

Where ambient conditions may lead to rapid surface drying, the use of light water fogging for 48 hours or application of a suitable water based curing compound like Antisol®-WB is recommended. Do not commence fogging until final set has been reached.

### CLEANING OF EQUIPMENT

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

## IMPORTANT CONSIDERATIONS

- Refer to the Method Statement for more information regarding substrate preparation or refer to the recommendations provided in EN 1504-10.
- Avoid application in direct sun and/or strong wind.
- SikaRep® Fine N should not be used at temperatures below 5 °C.
- At ambient temperatures above 35°C, the material should be stored in the shade and chilled water should be used for mixing.
- Do not add water over recommended dosage.
- Apply only to sound, prepared substrate.
- Do not add additional water during the surface finishing as this will cause discolouration and cracking.
- Protect freshly applied material.

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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### Product Data Sheet

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