

# PRODUCT DATA SHEET

## SikaCem<sup>®</sup> Concentrate

### GENERAL PURPOSE BONDING AGENT

#### DESCRIPTION

SikaCem<sup>®</sup> Concentrate is a general purpose bonding agent for bonding cement plasters and screeds to concrete, masonry and brick substrates.

#### USES

SikaCem<sup>®</sup> Concentrate is used:

- As a bonding agent to bond cement mortars and plasters to concrete, masonry and brick surfaces.
- As an additive to cement based mortars and plasters to reduce surface dusting.

#### CHARACTERISTICS / ADVANTAGES

- Provides excellent adhesion of the plaster or mortar to most mineral based substrates.
- Can be used for new work or repair work.
- Increases strength and durability.
- Increases surface hardness and significantly reduces the problem of surface dusting.
- Will enable a tighter, denser and more uniform surface finish to be achieved on mortars, toppings and renderings.
- Improves bond of subsequent coatings.
- Easy to use.
- Economical.

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Polyvinyl acetate based emulsion
<b>Packaging</b>	5 litres
<b>Appearance / Colour</b>	White liquid
<b>Shelf Life</b>	Six months in unopened original containers when stored as noted below.
<b>Storage Conditions</b>	Store free from frost and below 25°C. Protect from direct sunlight.
<b>Density</b>	1.05 kg/litre approximately (at 25°C)
<b>Consumption</b>	As a bonding agent: <ul style="list-style-type: none"> <li>▪ 1 litre of SikaCem<sup>®</sup> Concentrate is diluted to make 2 litres of bonding agent.</li> <li>▪ 1 litre of diluted product will cover an area of approximately 3 – 6m<sup>2</sup> (depending on surface roughness and porosity).</li> <li>▪ Therefore, 1 litre of SikaCem<sup>®</sup> Concentrate will cover an area of 6 – 12m<sup>2</sup>.</li> </ul>
<b>Ambient Air Temperature</b>	Application temperature min. +5°C to max. +30°C

#### SUBSTRATE QUALITY / PRE-TREATMENT

- All substrates must be sound, clean and free from oils, grease and any surface contaminants that may affect bond.
- All loose or weak materials and surface laitance must be removed by scabbling, sandblasting, etc.
- The surface must be free of standing water.
- Dry substrates should be thoroughly pre-wetted, and the surface allowed to dry (to achieve what is re-

ferred to as a 'saturated surface dry' condition) before the bonding agent is applied.

## MIXING

**Typical Mixing Ratios (by volume), SikaCem® Concentrate:** Water:

- As a bonding agent for screeds, toppings and rendering: 1 : 1
  - As an additive to reduce surface dusting: 1 : 6
- Mix together a measured amount of SikaCem® Concentrate and water to suit the required application (refer to 'Technical Data' above). Stir until well dispersed. When used as an additive to reduce surface dusting:
- Consideration should always be given, when diluting SikaCem® Concentrate, to the amount of water already present in the sand.
  - Slowly add the diluted SikaCem® Concentrate to the preblended dry sand/cement while mixing continuously. Mix until a uniform and lump free consistency has been achieved.

## APPLICATION METHOD / TOOLS

**As a bonding agent for new plaster/screeds:**

- The diluted SikaCem® Concentrate should be applied to the prepared substrate with a stiff brush, broom or squeegee at a coverage rate of 3 – 6 m<sup>2</sup>/litre (depending on surface roughness and porosity).
- For very dry or porous surfaces two coats may be required.
- Do not allow the bonding agent to pond on horizontal surfaces.
- Always apply the mortar or plaster while the bonding agent is still tacky. If the bonding agent has dried out another coat should be applied.

**As an additive to reduce surface dusting:**

- Mortars, screeds and plasters containing SikaCem® Concentrate can be applied in their usual manner, following normal trade practices.

## CLEANING OF TOOLS

Clean all tools and equipment with water immediately after use. Hardened mortars containing SikaCem® Concentrate can only be removed mechanically.

## LIMITATIONS

- SikaCem® Concentrate is not a waterproof material and is not suitable for external application or permanent immersion in water.
- Always apply mortars, renders, etc to the bonding coat while it is still tacky. Another coat must be applied if drying of the first coat has occurred.
- Mortars and plasters containing SikaCem® Concentrate should be protected from water evaporation during the early age curing period. We recommend the use of Antisol® curing membranes for this purpose. Refer to separate data sheet for further information.

## BASIS OF PRODUCT DATA

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

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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