

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-210 Easy White

REALLY WHITE TILE ADHESIVE EASY TO APPLY FOR MEDIUM SIZED CERAMIC TILES



### DESCRIPTION

SikaCeram<sup>®</sup>-210 Easy White is a cement-based improved adhesive to easily lay small to medium sized ceramic tiles and natural stones. Really white product and creamy consistency. It can be used in layers up to 10 mm thick and is suitable for tiling on both walls and floors inside and outside of residential properties. EN 12004 class C2 TE.

### USES

SikaCeram<sup>®</sup>-210 Easy White is suitable for bonding the following types of tiles:

- All kind of ceramic tiles, marble and other natural stone, provided not sensitive to water

SikaCeram<sup>®</sup>-210 Easy White can be used indoors and outdoors for wall or floor applications, on the following substrate surfaces:

- Gypsum and cement based substrates
- Existing ceramic tiles, stones or paint in indoors
- Areas with underfloor heating, water systems

SikaCeram<sup>®</sup>-210 Easy White is suitable for high performance and demanding applications, such as:

- Spot-gluing insulating panels made of polystyrene, polyurethane foam, rock or glass wool

### CHARACTERISTICS / ADVANTAGES

- Really white colour
- Easy to apply, creamy consistency
- No vertical slipping
- Extended open time

### APPROVALS / CERTIFICATES

Improved cementitious adhesive with reduced slip and extended open time classified C2 TE according to EN 12004, Declaration of Performance 24473265, assessed by notified laboratory 1599, and provided with the CE marking.

### PRODUCT INFORMATION

<b>Composition</b>	Portland cement, selected aggregates, water retention additives, re-dispersible polymers.
<b>Packaging</b>	25 kg bag
<b>Appearance / Colour</b>	White powder
<b>Shelf life</b>	12 months from date of production
<b>Storage conditions</b>	Undamaged original sealed packaging, in dry and cool conditions
<b>Product Declaration</b>	C2 TE (EN 12004)

## TECHNICAL INFORMATION

<b>Tensile Adhesion Strength</b>	Initial	$\geq 1 \text{ N/mm}^2$	(EN 12004)
	Water immersion	$\geq 1 \text{ N/mm}^2$	
	Heat ageing	$\geq 1 \text{ N/mm}^2$	
	Freeze thaw cycles	$\geq 1 \text{ N/mm}^2$	
<b>Slip Resistance</b>	$\leq 0.5 \text{ mm}$	(EN 1308)	
All data collected from test reports released by laboratory Modena Centro Prove, Notified Body 1599.			

## SYSTEMS

<b>System Structure</b>	For the following substrates a primer must be used:	
	<b>Substrate</b>	<b>Primer</b>
	Gypsum, plaster or anhydrite screed	Sika® Primer-11W
	Existing ceramic tiles, PVC sheet, linoleum and existing vinyl tiled floors	Sika® Primer-21W
Application and consumption details of the primers are given in their respective Product Data Sheet.		

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	~7.8 litres of water per 25 kg bag 31% $\pm$ 1%		
<b>Fresh Mortar Density</b>	~1.7 kg/l		
<b>Consumption</b>	Consumption is always dependent on the substrate surface profile and roughness, as well as on the application technique (single adhesive layer on the substrate, or with an additional 'buttering' layer on the back of the tiles). As a guide:		
	<b>Size of tiles</b>	<b>Notched trowel size</b>	<b>Consumption</b>
	Small	6 mm	~ 3 kg/m <sup>2</sup>
	Medium	8 mm	~ 4 kg/m <sup>2</sup>
	Large	10 mm	~ 5 kg/m <sup>2</sup>
<b>Layer Thickness</b>	10 mm max.		
<b>Ambient Air Temperature</b>	+5 °C min. / +35 °C max.		
<b>Substrate Temperature</b>	+5 °C min. / +35 °C max.		
<b>Maturing Time</b>	~3 min		
<b>Pot Life</b>	~ 6 hours		
<b>Open Time</b>	$\geq 0.5 \text{ N/mm}^2$ after 30 min		(EN 1346)
<b>Adjustability Time</b>	~50 min		
<b>Curing Time</b>	24–36 hours		
<b>Curing Treatment</b>	Protect from adverse weather conditions, such as extremely high or low (freezing) temperatures, rain, direct exposure to sun, for at least 12–24 hours from application.		
<b>Applied Product Ready for Use</b>	<b>Use</b>	<b>Waiting time</b>	
	Grouting on floors / walkability	24–36 hours	
	Grouting on walls	4–6 hours	
	Full surface traffic / use	~14 days	

Values determined at laboratory conditions: 23 °C  $\pm$  2 °C, R.H. 50 %  $\pm$  5 %. Higher temperatures will reduce the indicated waiting time, lower temperatures increase them.

# 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 and contaminants to 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.
- Any small surface defects and variations in level, profile, or around exposed aggregates for example, can be prefilled and levelled with an additional layer of SikaCeram®-210 Easy White, to a maximum thickness of 10 mm, applied at least 24 h before laying the ceramic tiling is laid. For larger and thicker areas of surface reprofiling and making good, appropriate mortars from the Sika MonoTop® or Sikafloor® Level range should be used. Cracks in substrates must be identified and sealed appropriately e.g. with Sikadur epoxy resins.
- When laying tiles on non-absorbent or substrates with limited absorbency, such as existing ceramic tiles, painted surfaces etc., check to confirm that these surfaces are all firmly and securely bonded and stable, then use suitable degreasing/descaling products to thoroughly and completely clean the surface.
- 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).
- For tiling in frequently damp or wet rooms, then a suitable Sika® waterproofing product / system should be applied before the tiling.

## MIXING

Pour the recommended amount of water into a suitable, clean mixing container. Whilst stirring slowly, slowly add the SikaCeram®-210 Easy White powder to the water and then mix thoroughly using a low speed (~500 rpm) electric mixer until a completely homogeneous and lump-free mix is achieved. After mixing, leave the material to stand and 'mature' for a few minutes, and then briefly stir again immediately prior to application. The resulting mix has a very creamy consistency and is easy to apply and spread.

## APPLICATION

- SikaCeram®-210 Easy White is applied using a notched trowel.
- Apply sufficient product to ensure complete 'wetting' of the backs of the tiles.
- Tiling must be carried out on freshly applied adhesive, exerting adequate pressure to ensure complete and uniform contact with the adhesive and thus

optimum bond. If a film is seen to form on the surface, the adhesive has been left for too long; should this happen, then immediately remove the adhesive layer with the trowels, discard this material and apply a fresh layer of SikaCeram®-210 Easy White adhesive.

- Avoid application in direct sunlight and/or strong wind / draughts.
- SikaCeram®-210 Easy White is specifically designed to be ideal for laying non-absorbent tiles up to 2025 cm<sup>2</sup> (e.g. 45x45 cm) indoors, and for tiles up to 900 cm<sup>2</sup> (e.g. 30x30 cm) outdoors.
- To lay any tiles larger than 900 cm<sup>2</sup> (e.g. 30x30 cm), the double-layer 'buttering' technique is always recommended

## CLEANING OF EQUIPMENT

Thoroughly clean all tools and equipment with clean water before the product has set, preferably immediately after use. Once hardened the product can only be removed by mechanical means.

## IMPORTANT CONSIDERATIONS

- Gypsum plaster substrates must have a maximum moisture content of 0.5 %.
- If a waterproofing layer is required under the tiles, then cement or acrylic-based systems are suitable for use under SikaCeram®-210 Easy White. Please refer to the respective Sika Product Data Sheets for more information.
- For any natural stones tiles always carry out a small test application first.

SikaCeram®-210 Easy White must not be applied in the following situations:

- On metal or wood surfaces.
- On existing ceramic tiles outdoors.
- For any situations or applications not explicitly described in this Product Data Sheet.

## 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.

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