

## PRODUCT DATA SHEET

# Sikagard®-790 All-in-One Protect

full porous surface protection for natural stones and mineral surfaces

### DESCRIPTION

Based on an advanced formula, Sikagard® -790 All-in-One Protect has been specially developed to provide highly effective long lasting protection on Natural Stone and Mineral Surfaces. Sikagard® -790 All-in-One Protect is invisible and will not change the colour or appearance of the stone\*. Protection is invisible and will not change the colour or appearance of the stone\*. Sikagard® -790 All-in-One Protect protects stone and paving from staining from most liquids including oil, petrol and water, prevents damage from water penetration and erosion and also makes it easier to remove graffiti sprayed on on the surface, making it's removal much easier by using suitable cleaners. It is vapour open, not changing the hydrothermal behaviour of the structure.

### USES

Sikagard® -790 All-in-One Protect natural can be used to protect facades, pitched roofs, pavements and floors made from porous natural stones or minerals , also quartz free ones and even on softwood.

- porous natural stone such as granite, limestone, marble, etc.
- reconstituted or artificial stone
- terracotta (brick, tiles), terracotta floor tiles
- clay- or concrete roofing tiles
- concrete pavement blocks, cement- or lime based renders and plasters etc.
- soft wood, like spruce or fir

### PRODUCT INFORMATION

<b>Chemical Base</b>	Water-based fluorinated acrylic copolymer
<b>Packaging</b>	5 and 20 litres plastic pails
<b>Shelf Life</b>	~12 months from date of production if stored in unopened, undamaged and original sealed packaging
<b>Storage Conditions</b>	Store in dry cool conditions away from frost

### CHARACTERISTICS / ADVANTAGES

- specially designed for protection of natural stone
- facade, roof and flooring use
- Solvent free formulation
- non-flammable, low odour
- Can be used internally or externally
- Dramatically improves water and staining resistance
- High degree of water repellency
- Does not alter appearance of surface to which it is applied
- Resists UV light, does not yellow
- Facilitates the cleaning of graffiti (use a specific anti-graffiti cleaner, follow the manufacturer's recommendations).

### ENVIRONMENTAL INFORMATION

- VOC emission classification GEV-Emicode EC1PLUS, Licence Number: 19374/27.10.10

<b>Appearance / Colour</b>	Colorless liquid which may have a slight yellowish color and a slight haze. Transparent after drying.
<b>Density</b>	~1.01 g/cm <sup>3</sup> at 20 °C
<b>Flash Point</b>	> 100 °C
<b>pH-Value</b>	5.8 at 20 °C

## APPLICATION INFORMATION

<b>Consumption</b>	Consumption will depend on the type and porosity of substrate: <ul style="list-style-type: none"> <li>Typically on very porous substrates, from 300 to 600 g/m<sup>2</sup> per coat</li> <li>Typically on substrates with low porosity, from 50 to 200 g/m<sup>2</sup> per coat</li> </ul>																		
<b>Yield</b>	Yield will depend as well on porosity and type of material. As a guide, the typical yield can be achieved: <table border="1" data-bbox="608 539 1428 824"> <thead> <tr> <th>Substrate</th> <th>Yield in m<sup>2</sup> per litre</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>3.00 to 6.00</td> </tr> <tr> <td>Terracotta</td> <td>4.00 to 6.00</td> </tr> <tr> <td>Roof tile</td> <td>6.00 to 8.00</td> </tr> <tr> <td>Limestone</td> <td>1.00 to 2.00</td> </tr> <tr> <td>Sandstone</td> <td>0.50 to 2.00</td> </tr> <tr> <td>Cement render</td> <td>4.00 to 6.00</td> </tr> <tr> <td>Very porous stones</td> <td>0.50 to 2.00</td> </tr> <tr> <td>Paver</td> <td>3.00 to 6.00</td> </tr> </tbody> </table>	Substrate	Yield in m <sup>2</sup> per litre	Concrete	3.00 to 6.00	Terracotta	4.00 to 6.00	Roof tile	6.00 to 8.00	Limestone	1.00 to 2.00	Sandstone	0.50 to 2.00	Cement render	4.00 to 6.00	Very porous stones	0.50 to 2.00	Paver	3.00 to 6.00
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<b>Ambient Air Temperature</b>	+5 °C Minimum +30 °C Maximum																		
<b>Dew Point</b>	Apply Sikagard®-790 All-in-One Protect at least 2 °C above the dew point																		
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<b>Applied Product Ready for Use</b>	Optimum protection is achieved after 7 days																		

## 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.

## LIMITATIONS

- Sikagard®-790 All-in-One Protect must not be diluted prior to its use.
- Sikagard®-790 All-in-One Protect must not be mixed with any other product.
- Not suitable for non-absorbent stone surfaces.
- Do not apply during rain or in very hot weather.
- Dark substrates with limited absorption need care to avoid streaks i.e. Do not over apply, completely remove any excess before drying, wipe with a damp, lint-free cloth. Any dried streaks can often be removed by rubbing them gently with a similar dry cloth.
- When cleaning the surface prior the applicaiton of Sikagard® -790 All-in-One Protect using an acid cleaner, this may cause yellow/brownish staining caused by a residue reaction. Rinse thoroughly after cleaning with an acid cleaner.

## 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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

The substrate must be cleaned, dry and free from dirt and dust. Any other loose or friable particles, existing coatings or any other contaminants such as oils or grease must also be removed.

## APPLICATION

Sikgard® -790 All-in-One Protect is supplied ready-for-use, do not dilute. Shake the sealed pails thoroughly before opening and use. Apply by brush or roller (from suitable container) or suitable low pressure spray, ensuring an even distribution. Work well into surface for maximum penetration. Do not leave surplus material on the surface. If necessary, wipe up excess with a damp cloth approximately 30 mins after application. Ensure an even and thorough coverage, especially on textured stone where “ponding” of the product must be avoided. For facades and roofs, apply from bottom to top, preventing run-off on untreated surface, in two coats, applied before the first is fully dry. For horizontal use normally, only one coat is required, but for very porous material, a second coat may be required, which must be applied before first coat is fully dry. Allow to dry for approximately 5-7 hours for foot traffic depending on air temperature. Open to vehicular traffic 48-72 hours after application.

## CURING TREATMENT

Sikgard®-790 All-in-One Protect does not require any curing after application but must be protected against spillage and rain during 24 hours.

## CLEANING OF TOOLS

Application tools must be cleaned immediately after application with water.

## 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.

## 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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