

## PRODUCT DATA SHEET

# Sikagard®-790 All-in-One Protect

### POROUS SURFACE FULL PROTECTION

#### DESCRIPTION

Sikagard®-790 All-in-One Protect is a protective impregnation that is designed to protect ALL types of porous mineral substrates against the penetration of water based liquids and oils, and to prevent or significantly reduce staining of these materials. Sikagard®-790 All-in-One Protect does not form a film on the surface and therefore it is completely invisible. Sikagard®-790 All-in-One Protect allows the each-way diffusion of water vapour and as a result the treated structures and surfaces retain their normal hydrothermal and hygric behaviour.

Sikagard®-790 All-in-One Protect also makes it easier to remove any subsequent graffiti that is sprayed on the surfaces (with suitable cleaners).

#### USES

Sikagard®-790 All-in-One Protect can be used to protect facades, floors and roofs made of all common mineral based building material substrates such as:

- Natural stone such as granite, limestone, marble, etc., as well as reconstituted or artificial stone
- Terracotta tiles, clay / cement based, roof tiles
- Concrete, cement render and plaster etc

#### CHARACTERISTICS / ADVANTAGES

- Protection against water and oil penetration
- Provides protection against staining
- Suitable for use on all types of facades, floors and roofs
- Suitable for use on most building material substrates
- Provides Invisible protection- no change in aspect
- Allows the substrate to breathe
- UV-light resistant
- Reduces the problem of graffiti as easier to remove
- Environmentally friendly - low VOC's

#### PRODUCT INFORMATION

<b>Composition</b>	Water dispersed fluoropolymer
<b>Packaging</b>	5 and 20 litres plastic pail
<b>Appearance / Colour</b>	Slightly yellowish liquid
<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
<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><thead><tr><th><b>Substrate</b></th><th><b>Yield in m<sup>2</sup> per litre</b></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>	<b>Substrate</b>	<b>Yield in m<sup>2</sup> per litre</b>	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																		
<b>Substrate Temperature</b>	+5 °C Minimum +30 °C Maximum																		
<b>Applied Product Ready for Use</b>	Optimum protection is achieved after 7 days																		

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

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

Sikagard®-790 All-in-One Protect is supplied 'ready-for-use', but always thoroughly shake the sealed containers before opening and use.

Do not dilute the material and apply directly onto the substrate until saturation by brush, roller, or low pressure spray. This is normally best done in 2 coats using the "wet on wet" technique. Do not over apply, roll out and disperse any ponding or excess material before allowing to dry.

### CURING TREATMENT

Sikagard®-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 EQUIPMENT

Application tools must be cleaned immediately after application with water.

## MAINTENANCE

### CLEANING

Remove any surface spillages /graffiti as soon as possible. The sooner these are removed, the easier it will

be.

Domestic spillages and staining can be removed with water and /or household detergent.

To remove graffiti, spray the appropriate graffiti cleaner.

Where and as directed by the manufacturer, allow to react and then remove with the graffiti, normally this is done using water jetting (pressure circa 100 bars). Repeat this sequence as required.

Surfaces should be cleaned and maintained regularly to retain their original aspect.

## IMPORTANT CONSIDERATIONS

- 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.

## 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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