



Sikagard® ElastoColor 675W

Flexible Anti Carbonation Protective Concrete Coating

Technical Data Sheet

DESCRIPTION

Sikagard ElastoColor 675W is a flexible one component water dispersed acrylic-styreneacrylate decorative coating.

USES

Sikagard ElastoColor 675W is used to protect and aesthetically enhance concrete substrates and is particularly suited as a final protective coating for facades.

ADVANTAGES

* Protection

Sikagard ElastoColor 675W provides excellent resistance to carbonation, frost and de icing salts.

* Vapour Permeable

Sikagard ElastoColor 675W is water vapour permeable allowing the structure to 'breathe'.

* Easily Maintained

Coating can be overcoated after cleaning.

* Decorative

Supplied in a wide range of different colours.

* Durable

Highly resistant to the effects of UV light (chalking) and weathering.

* Adhesion

Sikagard ElastoColor 675W has outstanding adhesion to concrete.

* Environmentally Friendly

Sikagard ElastoColor 675W is water based and rated environmentally harmless.

* Application

Can be applied by brush, roller or airless spray.

Technical Data (typical)

Colours: Refer to colour chart and current price list for availability and minimum order quantities.

Specific gravity: 1.3 kg/litre

Volume solids: 44%

Application temperatures & humidity conditions: +8°C min, +30°C max (substrate and ambient)
Observe dew point
RH ≤75%

Number of coats: 2 minimum

Recommended minimum total dry film thickness: 130 - 150 microns (65 - 75 microns/coat)

Diffusion Values:

| Carbon Dioxide diffusion (CO ₂) | Dry film thickness | Equivalent air layer thickness | Diffusion resistance |
|---|--------------------|---------------------------------------|-----------------------|
| | d | S _{D, CO₂} | μCO ₂ |
| Test result | 130 μm | 124 m | 9.5 x 10 ⁶ |
| Requirements | - | S _{D, CO₂} ≥ 50 m | |

| Water vapour diffusion (H ₂ O) | Dry film thickness | Equivalent air layer thickness | Resistance figures for diffusion |
|---|--------------------|--------------------------------------|----------------------------------|
| | d | S _{D, H₂O} | μH ₂ O |
| Test result | 130 μm | 0.40 m | 3100 |
| Requirements | - | S _{D, H₂O} ≤ 4 m | - |

Overcoating times:

| Temp (°C) | Between coats (hrs) | Rain resistant (hrs) | 551S (hrs) | 552W (hrs) | 702W | Final drying |
|-----------|---------------------|----------------------|------------|------------|----------------------|--------------|
| 8 | 2 | 5 | 24 | 24 | 5 h min (7 d max) | 24 |
| 23 | 1 | 2 | 12 | 8 | | 14 |
| 30 | 30 mins | 1 | 8 | 6 | | 4 |

All above values are approximate.

SURFACE PREPARATION

The substrate must be clean, sound, free from laitance, loose and friable particles, dirt and contaminants particularly oil, grease or waxes.

An existing sound and firmly adhering coating may be overcoated, subject to a test area to establish cleaning technique, compatibility and bond, otherwise complete removal is advised. Use **Sikagard 552W** as an adhesion promoter.

Preparation by adequate high pressure water jetting or blast cleaning is recommended.

Surface defects, blowholes etc on all substrate types should be prefilled using **Icoment**®, **MonoTop**® or **SikaTop**® reprofiling mortars to provide a defect free surface.

Allow mortar to dry for 3 - 5 days (24 hours - **Icoment 520**) before coating application.
(Dependent on climatic conditions)

On reprofiled substrates a smooth steel float finish should be avoided on levelling/ pore filling coats. Provide a laitance free fine gripping surface using a plastic or wooden float.

SUBSTRATE PRIMING

Priming is not normally required on sound concrete substrates or those refurbished with the recommended Sika levelling materials, including **Sikagard ElastoColor 675W**. Adhesion and durability of the coating will be improved by priming of the cementitious levelling/pore filling coats.

- * **Porous substrates:**
1 - 2 coats **Sikagard 551S Primer**
or
1 - 2 coats **Sikagard 552W Primer**.
- * **Dense/levelled substrates:**
1 coat **Sikagard 551S Primer** can be diluted upto 20% with **Sika Thinner C**
or
1 coat **Sikagard 552W Primer** can be diluted upto 10% with water
- * **Exposed aggregate:**
Test areas are recommended to confirm consumptions, opacity and bond onto aggregate. Etching of aggregate surface may be required to achieve satisfactory bond. Use **Sikagard 702W**.

APPLICATION

Sikagard ElastoColor 675W should be stirred thoroughly prior to application.

Apply **Sikagard ElastoColor 675W** by brush or roller. Airless spray is possible. Equipment trials are recommended.

MAINTENANCE

Clean down surface of all contaminants and apply refresher coat to the required dry film thickness.

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important Note

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

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IMPORTANT CONSIDERATIONS

- * **Sikagard ElastoColor 675W** is not suitable as a floor treatment or for continuous water immersion nor may it be applied to wet substrates.
- * Wear suitable protective clothing, gloves and eye protection.
- * Do not apply in direct sunlight, when dew point conditions prevail or the likelihood of frost.
- * Ensure substrate priming coats are thoroughly dry before overcoating.
- * Application of the coating should not commence if rain is imminent.
- * Light or bright colours may require additional coats to achieve optimum opacity or where opacity is reduced through thinning of the first coat. Determine by test area.
- * Overcoating existing coatings will affect the performance characteristics of **Sikagard ElastoColor 675W**.
- * Always ensure good ventilation.
- * Do not dilute **Sikagard ElastoColor 675W**.
- * Normal coating system 2 - 3 coats of **Sikagard ElastoColor 675W**. Where light or bright colours are to be applied three coats are recommended, to ensure complete opacity.

CLEANING

Application and mixing tools should be cleaned with water immediately after use. Hardened material must be removed mechanically.

PACKAGING

Refer to latest price list.

MATERIAL CONSUMPTION

Theoretical dft consumptions per coat:
65 microns approximately 0.20 kg/m² (0.15 litre/m²). Excluding allowances for loss wastage, surface profile and porosity. Allow approximately 10% extra for spray application.

SHELF LIFE AND STORAGE

Minimum 1 year in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).