

Product Data Sheet

Edition: 25/07/2014

Identification No: 010305020010000009

Code: 07.03.040

Sika® Color-650 W

Sika® Color-650 W

High performance, acrylic based, waterproof, elastic coating for building facades

Product Description

Sika® Color-650 W is a 1-one part, waterproof, elastic, vapour permeable coating based on water dispersed acrylic resin, designed for protection and decoration of facades.

Uses

- For coating and insulation of external surfaces such as renderings, concrete, e.t.c. It forms an elastic membrane with hair line crack bridging properties. Its performance is maintained even at low temperatures.
- For protection of facades against water, humidity and saltiness on near coastal area constructions.

Characteristics / Advantages

- Waterproof against driven rain
- With crack-bridging properties
- Water vapour permeable, allows the substrate to breathe
- Excellent resistance against weathering and ageing
- Environmentally friendly, solvent free product
- UV - resistant
- Easy application
- Non tacky with reduced tendency to pick up dirt
- Good opacity and covering ability

Product Data**Form**

Appearance / Colours Creamy, selected colours according to the colour chart.

Packaging 3 lt and 10 lt pails

Storage

Storage Conditions / Shelf-Life 12 months from date of production if stored properly in unopened and undamaged original sealed packaging in cool and dry conditions at temperatures between +5°C and +40°C. Protect from direct sunlight and frost.



Technical Data

Chemical Base	Acrylic resin dispersed in water.	
Density	~ 1.42 ± 0.03 gr/ml (at +20°C)	
Viscosity	12500 ± 1500 cps	Brookfield RVT (10 rpm axis 5, 20 °C)
Adhesion	≥ 2 MPa on concrete	(according to ASTM D 4541)
Elasticity	Tensile elongation > 350%	(according to ASTM D 2370)
Flexibility	Without cracks for 2 mm longitudinal force test	(according to DIN 53152)

System Information

System	Product	Number of Coatings
Priming	Sika® Color -500 W Primer	1
Top coat	Sika® Color -650 W	1-2
Possible sealing coating	Sika® Color -670 W	1

Note: A third coat of Sika® Color-650 W might be required in case of light or bright colour shades in order to achieve good opacity.

For improved overall system performance against dirt pick-up, sealing of the system using Sika® Color-670 W is recommended.

Application Details

Consumption 8 - 10 m²/lt depending on the absorbency and the roughness of the substrate

Substrate Preparation

Exposed concrete without existing coating:

The substrate must be dry, clean and free from oil, grease and loose, friable particles.

Whenever a remedial application on the surfaces is required, an acrylic putty should be applied. After the curing of the putty, grind all the surfaces with an abrasive pad.

New concrete and new render must be at least 28 days old.

Exposed concrete with existing coating:

Existing coatings must be tested to confirm their adhesion to the substrate - adhesion test average > 0.8 N/mm² with no single value below 0.5 N/mm².

- Inadequate adhesion:
Existing coatings must be completely removed by suitable methods and the substrate must be sufficiently sound and suitable to be coated as above.
- Adequate adhesion:
Thorough cleaning of all surfaces by steam cleaning or high pressure water jetting

Application Conditions / Limitations

Substrate Temperature +10°C min / +35°C max

Ambient Temperature +10°C min / +35°C max

Relative Air Humidity < 80%

Dew Point The substrate and uncured floor must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish.

Application Instructions

Mixing The material is supplied ready for use. Stir thoroughly prior to application.
For use on very absorbent substrates, add up to 10% water - stir thoroughly again prior to use.

Application Method / Tools Sika® Color -650 W can be applied by brush, short hair pile roller or airless spray.
The second coat should be applied in a cross wise direction to achieve optimum opacity.

Tool maintenance Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can only be mechanically removed.

Waiting Time / Overcoating Waiting time between coats:

Previous coating	Waiting time			Next coating
	8 - 10°C	15 - 23°C	30 - 35°C	
Sika® Color -500 W Primer	2 hours	1.5 hours	1 hour	Sika® Color -650 W
Sika® Color -650 W	6 hours	5 hours	4 hours	Sika® Color -650 W
Sika® Color -650 W	6 hours	5 hours	4 hours	Sika® Color -670 W

Note: A refresher coat of Sika® Color -650 W / Sika® Color -670 W can be applied without priming if the existing coating has been thoroughly cleaned.

Notes on Application / Limitations

Do not apply when:

- Rain or frost is expected.
- Relative humidity is above 80%.
- The temperature is below +10°C and/or below dew point conditions.
- The surface is wet.

At temperatures below +10°C on very absorbent substrates with strong winds, there is a risk of drying cracks and reduced adhesion so these conditions should be avoided.

Sika® Color -650 W is resistant to common atmospheric pollutants.

Curing Details

Curing Treatment Sika® Color -650 W does not require any special curing but must be protected from rain for at least 2 hours at +23°C.

Applied Product ready for use Final curing: ~ 6 hours at +23°C.

Value Base

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.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet 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.



Sika Hellas ABEE
Protomagias 15
145 68 Kryoneri
Athens-Greece

Tel.: +30 210 81 60 600
Fax.: +30 210 81 60 606
e-mail: sika@gr.sika.com
www.sika.gr

