REFURBISHMENT
ANTI-CARBONATION
COATINGS COLOUR RANGE

BUILDING TRUST

WHY USE A PROTECTIVE COATING?

Long-term protection of a reinforced concrete building façade will not be achieved in most cases of deterioration by patch repair alone. Patch repair will at best provide a “band-aid” with future repairs being required most probably in adjacent areas and at a higher future cost. It is therefore important that, in addition to the repair of visibly damaged areas, a protective system be applied to all areas as part of the future repair and maintenance strategy.

The use of a correctly specified protective coating system on a building façade will protect against reinforcing steel corrosion (due to carbonation and/or chlorides) while still allowing the building to breathe, with transmission of water vapour through the protective coating. This guide is intended to help clarify the protective system choices for the specifier and to summarise the selection criteria of different coating systems.

COLOUR RANGE

RAL 1001

RAL 1002

RAL 1011

RAL 1015

RAL 5014

RAL 5024

RAL 7023

RAL 7030

RAL 7032

RAL 7035

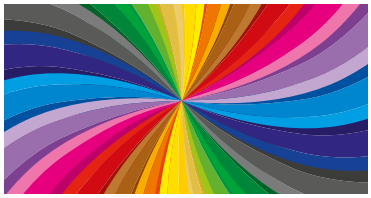
RAL 7037

RAL 9005

RAL 9016

SIKA MATCH SERVICE

All industrial resins are available in most RAL, BS and Pantone colours at an additional cost.
Due to the printing process of this colour chart slight deviations to the colours must be accepted.



PRODUCT SELECTION GUIDE

	PRODUCTS	Sikagard®-550 W Elastic	Sikagard®-675 W GB ElastoColor
BS EN 1504-2 CE MARKING	Crack bridging ability Class	A1 (-20°C)	-
	Artificial weathering	P	P
	Permeability to CO_2 SD >50m	P	P
	Water vapour permeability SD <5m (Class)	P (1)	P (1)
	Capillary absorption and permeability to water ω <0.1 kg/m².h0.5	P	P
	Adhesion strength by pull-off test N/mm²	≥ 0.8 (0,5)	≥ 0.8 (0,5)
	Reaction to fire	Class F	Class E
	Dangerous substances	P	P
	Thermal compatibility (Freeze and thaw cycling with de-icing salt immersion) N/mm²	≥ 0.8 (0.5)	-
TECHNICAL INFORMATION	Density (SG) kg/L	1.39	1.42
	Volume solids (VS) %	53.4	48
	Solid content (SC) %	66.1	64
	≈ Minimum required dft to achieve full durability characteristics (CO^2 diffusion, adhesion after thermal cycling etc) microns	340	160
	≈ dft to achieve the required CO^2 protection equivalent air layer thickness of SD CO^2 ≥ 50m (microns)	160	160
	Carbon dioxide diffusion coefficient (μCO^2) x 105	3.1	14.7
	Water vapour diffusion coefficient (μH_2O) x 103	1.5	-
	Elongation @ break %	120	-

P = Passes BS EN 1504- 2 performance requirements

Sikagard®-550 W Elastic and Sikagard®-675 W GB ElastoColor both comply with the requirements for Class 0 as defined in paragraph A13(b) of Approved Document B, Fire Safety to the Building Regulations 2000

All Sikagard® anti-carbonation coatings ARE CE MARKED AND COMPLY WITH BS EN 1504-2

SECTORS

Bridges

Car Parks

Steel Framed Masonry Buildings

Concrete Buildings

Marine Structures

Industrial Facility

OUR KEY SERVICES

- Unique technical service and support
- Survey of damaged concrete
- Concepts, specifications and detailing
- Product or system selection
- Application training and on site support
- Quality control recommendations.

SIKA FULL RANGE SOLUTIONS FOR CONSTRUCTION:

WATERPROOFING

CONCRETE

REFURBISHMENT

MERCHANT

SEALING AND BONDING

FLOORING

ROOFING

INDUSTRY

FOR MORE INFORMATION:

www.sika.co.uk/specialistcoatings
0800 112 3863

WHO WE ARE
Sika Limited is part of the global Sika Group, specialising in the manufacture and supply of chemical based products for construction and industry. Sika is a world-leader in its field with subsidiaries in more than 80 countries, 15,200 employees, and annual sales of CHF 5.1 billion (£3.4bn). We are also committed to providing quality, service, safety and environmental care.

In the UK, we provide market-leading solutions for concrete, waterproofing, roofing, flooring, refurbishment, sealing & bonding, and industry, and have manufacturing sites in Welwyn Garden City, Preston, and Leeds with more than 700 employees and a turnover of more than £190 million.

bsi. ISO 9001 Quality Management

bsi. ISO 14001 Environmental Management

bsi. OHSAS 18001 Occupational Health and Safety Management

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BUILDING TRUST

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