

## PRODUCT DATA SHEET

# SikaRapid<sup>®</sup>-800 ECO

### Hardening Accelerator for Concrete, Mortar & Grout

#### PRODUCT DESCRIPTION

SikaRapid<sup>®</sup>-800 ECO is a liquid hardening accelerator for concrete and mortar, designed specifically for enhancing the performance of concrete with high levels of supplementary cementitious material (SCM), such as GGBS and PFA.

SikaRapid<sup>®</sup>-800 ECO promotes early and late age strength development without negatively influencing final strengths.

#### USES

SikaRapid<sup>®</sup>-800 ECO is especially suited for use in concrete incorporating SCM, such as GGBS and PFA.

- Enabling use of higher levels of SCM without increasing powder content or compromising on performance
- Ready-mixed concrete
- Precast Concrete
- Power floated concrete

#### CHARACTERISTICS / ADVANTAGES

SikaRapid<sup>®</sup>-800 ECO provides the following advantages through the long-term acceleration and activation of the concrete binder:

- Increased SCM content without penalties in concrete physical characteristics allowing lower embodied carbon per cubic metre
- Enhanced strength gain
- Reduced or eliminated heat or steam curing
- Faster turnaround of formwork / moulds

SikaRapid<sup>®</sup>-800 ECO is chloride free and does not contain ingredients which promote corrosion of steel. It is therefore suitable for use in reinforced concrete.

#### APPROVALS / STANDARDS

Conforms to the requirements of BS EN 934-2 Table 7 DoP 63655522, certified by Factory Production Control Body 1029 and provided with the CE mark DoC 69986402, certified by Factory Production Control Body 0120 and provided with the UKCA mark

#### PRODUCT INFORMATION

<b>Packaging</b>	20 L drum, 1000 L IBC
<b>Shelf Life</b>	12 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.
<b>Storage Conditions</b>	Storage at temperatures between 5 °C and 30 °C. Protect from direct sunlight, frost and contamination.
<b>Appearance / Colour</b>	Blue/Green liquid
<b>Specific gravity</b>	1.19 kg/L at 20°C
<b>Total Chloride Ion Content</b>	<0.2 % w/w
<b>Equivalent Sodium Oxide</b>	<0.5 % w/w (alkali content)

# TECHNICAL INFORMATION

## Specific Advice

At higher dosages, there may be a neutral or negative effect on 24 hour compressive strength, but a stronger subsequent strength gain after 2-3 days.

## Effect on Setting

SikaRapid®-800 ECO may bring forward the concrete setting time

# APPLICATION INFORMATION

## Recommended Dosage

0.2-1.5 % by weight of cement

## 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.

## ECOLOGY, HEALTH AND SAFETY

### REGULATION (EC) NO 1907/2006 - REACH

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### DISPENSING

SikaRapid®-800 ECO is added to the gauging water or added with it into the concrete mixer.  
SikaRapid®-800 ECO may also be added into the ready-mix truck on site. When added on site the truck mixer shall rotate its drums at maximum revolutions for at least 1 minute per m<sup>3</sup> concrete and a minimum of 5 minutes to achieve a uniform mix. The concrete must be visually checked for uniform consistence before discharging.

## 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.

### SIKA LIMITED

Watchmead  
Welwyn Garden City  
Hertfordshire, AL7 1BQ  
Tel: 01707 394444  
Web: [www.sika.co.uk](http://www.sika.co.uk)  
Twitter: @SikaLimited



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