



# METHOD STATEMENT

## Sikagard<sup>®</sup> 550 W Elastic

DATE, : 10 / 2015

VERSION NO. 1

SIKA EGYPT

ENG. ASHRAF ELZINY

**TECHNICAL DEPARTMENT**

**BUILDING TRUST**



Scope :

# Method Statement for Application of a Crack bridging Protective Coating for concrete – **Sikagard<sup>®</sup> 550 W Elastic.**

## 1. Main Instructions:

-  The concrete age must be at least 28 days old.
-  Don't apply when there is :
  - Expected rain.
  - Relative humidity > 80 %.
  - Temperature below +8 and/or below dew point.
-  Compressive Strength Min. 25 N/mm<sup>2</sup>.
-  Pull-off strength min. 1.5 N/mm<sup>2</sup>.

## 2. Surface preparation:

-  The good surface preparation is the base for Sika materials success.
-  Exposed Concrete without existing coating :
  - The substrate must be clean, dry and free from all traces of loose particles, laitance, oil, grease.
  - Concrete Substrate: Should be dry, clean and free from loose particles.
  - Suitable preparation methods are steam cleaning. High pressure water jetting or blast cleaning.
-  Exposed Concrete with existing coating :
  - Existing coatings must be tested to confirm their adhesion to the substrate.  
adhesion test average > 0.8 N/mm<sup>2</sup> with no single value below 0.5 N/mm<sup>2</sup> , So, :
    - 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 :
  - Through cleaning of all surfaces by means of steam cleaning or high pressure water jetting.
  - For Water based coating use Sikagard-552 W Aqua primer as primer.
  - For Solvent based coating use Sikagard-551 S Elastic primer as primer.

### 3. Mixing:



**Sikagard® 550 W Elastic** is supplied ready for use .Stir thoroughly prior to application.

### 4. Application:



#### **Application method:**

- Apply Sikagard-551 S elastic primer or Sikagard 552 W Aqua primer evenly onto the substrate.
- For use on very dense substrates, up to 10 % Sika® Thinner C may be added to Sikagard-550 S elastic primer.



#### **Layer Thickness:**

- $D_{minp}$  (minimum required thickness to achieve the required characteristics –CO2 equivalent air thickness of 50 m and crack bridging) = 200 microns.
- $D_{maxp}$  (maximum required thickness not to go beyond the H2O equivalent air thickness of 4 m) = 1635 microns.



#### **System Structure :**

System	Product	No. of applications
Priming	Sikagard® -552 W Aqua primer	1
Top Coat	Sikagard® -550 W Elastic	2

## 5. Consumption:

Product	Per Coat
Sikagard® -551 S Elastic primer	~0.10-0.15 Kg /m2
Sikagard® -552 W Aqua primer	~0.10-0.15 Kg/m2
Sikagard® -550 W Elastic	~0..25-0.35 Kg/m2

## 6. Cleaning:

 Clean all tools and equipment immediately after use Thinner C.

## 7. Remarks:

 **Waiting time / Overcoat ability :**

- Waiting time between coats at +20°C

Previous coating	Waiting time	Next coating
Sikagard® -552 W Aqua primer	5 hours Minimum	Sikagard® -550 W Elastic
Sikagard® -551S Elastic primer	18 hours Minimum	Sikagard® -550 W Elastic
Sikagard® -550 W Elastic	8 hours Minimum	Sikagard® -550 W Elastic

 Sikagard®-680 S doesn't require any special curing but must be protected from rain for at least 4 hour at +20°C.

 Full cure: ~7 days at +20°C.

*For any further clarification don't hesitate to contact Sika Egypt Technical Department.*

---

## **Technical Department**

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 Product Data Sheet for the product concerned, copies of which will be supplied on request.

**SIKA EGYPT**  
TECHNICAL DEPEATEMENT

**Version given by**  
Eng. Ashraf Elziny  
Phone: 002-01223271730  
Fax: 002-03-4244604  
Mail: elziny.ashraf@eg.sika.com

**Method Statement**  
Sikagard® 550 W Elastic  
DATE, : 07 / 2015, VERSION NO. 1

Language/Region/Translation template  
TECHNICAL DEPEATEMENT

