

## PRODUCT DATA SHEET

# EVERBUILD® ANCHORSET® RED 300

HIGH PERFORMANCE 2 PART STYRENE BASED RAPID CURING CHEMICAL ANCHORING SYSTEM

### PRODUCT DESCRIPTION

EVERBUILD® ANCHORSET® RED 300 is a styrene based chemical anchor in a new easy to use twin bag system operated by a standard sealant gun, therefore easy to use by a general builder. Perfect for high strength fixing of satellite dish mountings, gate hinges, balcony rails etc.

### USES

- Fixing wall ties
- Bolts and screws into a wide range of building substrates
- Securing machinery into floors
- Fixing studs and starter bars
- For concrete, solid or hollow masonry and solid rock

### CHARACTERISTICS / ADVANTAGES

- Easy mix twin bag system
- Rapid curing system
- Great for concrete, solid or hollow masonry and solid rock
- High chemical resistance
- Complete with mixer nozzle

### APPROVALS / STANDARDS

- ETAG 001 Part 5 Option 7 for threaded bars (M8-M24) in galvanized steel 5.8-8.8 & 10.9 and Stainless Steel A4-70; A4-80 & HCR (1.4529) in C20/25 to C50/60 uncracked concrete
- Tested according to LEED 2009 EQ c4.1, SCAQMD rule 1168 (2005)

### PRODUCT INFORMATION

<b>Chemical Base</b>	Styrene based
<b>Packaging</b>	300ml cartridge
<b>Shelf Life</b>	12 months from date of manufacture.
<b>Storage Conditions</b>	To be stored between +5 minimum and +25°C maximum. Do not expose to direct light.
<b>Density</b>	1.7g/cm <sup>3</sup> when mixed

### TECHNICAL INFORMATION

<b>Compressive Strength</b>	60 N/mm <sup>2</sup> @ 24 hours at 20°C 74 N/mm <sup>2</sup> @ 7 days (ASTM D695 20°C)
<b>Modulus of Elasticity in Compression</b>	3.1 GN/mm <sup>2</sup> @ 24 hours at 20°C (ASTM D695 20°C)
<b>Tensile Strength</b>	11 N/mm <sup>2</sup> @ 24 hours 13 N/mm <sup>2</sup> @ 7 days (ASTM D638 20°C)

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	10:1 by volume as supplied in cartridge				
<b>Consumption</b>	<b>Anchorset (mm)</b>	<b>Hole Diameter/Depth (mm)</b>	<b>Tensile Load (kN)</b>	<b>Shear Load (kN)</b>	<b>Fixings Per Unit 300ml</b>
	8	10 / 64	16	1.4	85
	10	12 / 80	22.6	2.9	58
	12	14 / 96	29	4.0	38
	16	18 / 128	45	-	23
	20	22 / 160	69.4	-	12
	24	26 / 192	102.9	-	8
Tension Figures quoted are tested in approximately 20/25 N/mm <sup>2</sup> concrete.					
<b>Curing Time</b>	<b>Base Material Temperature (°C)</b>	<b>Gel Time (min)</b>	<b>Min Loading Time (min)</b>		
	5-10	12	120		
	10-20	6	80		
	20-25	4	40		
	25-30	3	30		
	30-35	2	20		
	35-40	1.5	15		

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

Drill hole to the correct diameter and depth (see chart for guide), ideally using a rotary percussion machine. For optimum results the hole must be coarse sided. If the holes are produced by diamond drilling the surfaces should be thoroughly roughened. Remove all dust and debris from the hole using a hand air pump or a stiff rotary brush. All bars should be clean and free from oil or grease and all flaking rust should be removed. Threaded rod or studs should be chisel-ended to prevent them being unscrewed from the cured resin.

### APPLICATION METHOD / TOOLS

Unscrew the lid and cut off the top of the bag under the metal clamp. Attach the mixing nozzle to the cartridge (screw down hand tight). Place cartridge into the dispensing gun. Gradually pressurise the Cartridge by activating the hand trigger a few times until material passes through the mixing nozzle and an even colour is obtained (approximately 5-6 inches of extruded material should be adequate). Once the desired fill is achieved release the pressure by pressing the slide release arm and pulling back the slide rail, wipe off excess material and insert the fixing slowly, with a rotating action, to the desired depth.

### LIMITATIONS

Do not use in non porous substrates i.e. metal, PVC.  
Do not use on wet surfaces.  
As the manufacturer cannot know all the uses its products may be put to, it is the users responsibility to determine suitability for use. If in doubt, contact technical services department for advice.

### VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

### LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

### ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

### 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

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