PRODUCT DATA SHEET

# EVERBUILD® ANCHORSET® RED 380P

Styrene based two part rapid curing chemical anchor

## PRODUCT DESCRIPTION

EVERBUILD® ANCHORSET® RED 380P is a two part polyester rapid cure chemical anchor system designed for high strength fixing of railings, satellite dishes, signs, brackets and other fixtures which carry heavy loads. High performance in both solid and hollow applications. Complete with mixer nozzle 10 to 1 Co-Axial mix cartridge.

## USES

- Fixing wall ties.
- Bolts and screws into a wide range of building substrates.
- Securing machinery into floors.
- Fixing studs and starter bars.

## CHARACTERISTICS / ADVANTAGES

- Robust twin pack
- Rapid curing system.
- Great for concrete, solid or hollow masonry and solid rock

## 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

| | |
|---|---|
| **Chemical Base** | Styrene based polyester resin |
| **Packaging** | 410ml cartridges |
| **Colour** | Grey |
| **Shelf Life** | 12 months from the date of manufacture. |
| **Storage Conditions** | Store in cool dry conditions between + 5°C and 25°C |
| **Density** | 1.7 g/cm³ when mixed |

## TECHNICAL INFORMATION

| | |
|---|---|
| **Compressive Strength** | 60 N/mm² @ 24 hours<br>74 N/mm² @ 7 days (ASTM D695 20°C) |
| **Modulus of Elasticity in Compression** | 3.13 GN/mm² @ 7 days (ASTM D695 20°C) |
| **Tensile Strength** | 11 N/mm² @ 24 hours<br>13 N/mm² @ 7 days (ASTM D638 20°C) |
| **Design Considerations** | **Performance data for rods (steel grade 8.8) in concrete**<br>Tension Figures quoted are tested in approximately 20/25 N/mm² concrete. |

| ANCHOR SIZE (mm) | HOLE DIAMETER/ DEPTH (mm) | Tensile Load (kN) | Shear Load (kN) | FIXINGS PER UNIT 410ml |
|---|---|---|---|---|
| 8 | 10/64 | 16 | 1.4 | 118 |
| 10 | 12/80 | 22.6 | 2.9 | 81 |
| 12 | 14/96 | 29 | 4.0 | 52 |
| 16 | 18/128 | 45 | - | 32 |
| 20 | 22/160 | 69.4 | - | 17 |
| 24 | 26/192 | 102.9 | - | 11 |

## APPLICATION INFORMATION

**Mixing Ratio**: 10:1 by volume as supplied in cartridge

**Curing Time**

| Temperature (°C) | Gel Time (Minutes) | Minimum Loading Time (Minutes) |
|---|---|---|
| 5 – 10°C | 12 | 120 |
| 10 - 20°C | 6 | 80 |
| 20 - 25°C | 4 | 40 |
| 25 - 30°C | 3 | 30 |
| 30 - 35°C | 2 | 20 |
| 35 - 40°C | 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

Attach the mixing nozzle to the cartridge (screw down hand tight).
Place cartridge into the Anchorset dispensing gun. Open the cartridge by pressing the green end of the colour coded valve. Gradually pressurise the cartridge by activating the hand trigger a few times until material passes through the mixing nozzle. Stop pressurising and allow the material to flow until an even colour is obtained (approximately 5-6 inches of extruded material should be adequate).
Press the red end to close the valve. Insert the nozzle into the base of the hole. Open valve again by pressing the green end and activate the trigger, withdraw the nozzle slowly as the hole fills.
Once the required fill is achieved shut off the valve and wipe off excess material. Insert the fixing slowly with a rotating action to the desired depth. Once all applications have been carried out, release the pressure by pressing the slide release arm on the back of the trigger stop and pulling back the slide rail.
**NB** Once material has started to extrude through the nozzle over pressurising the system will not increase flow rate, and can cause leakage from the rear of the cartridge.

## 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 exact product data and uses.

## ECOLOGY, HEALTH AND SAFETY

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.

## 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.

**EVERBUILD BUILDING PRODUCTS LTD**
Site 41, Knowsthorpe Way
Cross Green Industrial Estate
Leeds, LS9 0SW
Tel: 0113 240 3456
Web: www.everbuild.co.uk
Twitter: @everbuild

**SIKA LIMITED**
Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited