

## TECHNICAL DATA SHEET

### SX POLYFLEX HM POLYURETHANE

A one component moisture curing, paintable, high modulus polyurethane sealant and adhesive. Has excellent adhesion to most building substrates, is fast curing with permanent and durable elasticity and is non-staining to brickwork. Has first rate resistance to water and UV rays and has permanent elasticity under all climate conditions.

**USES:** For interior and exterior waterproof joints in building and metal constructions. For gluing, sealing, mounting and anchoring in building applications. For use in metal and mechanical construction, ship building and container sealing joints, refrigeration plants, automotive, caravan, mobile home, aircraft and the railway industry.

**COLOURS:** White, Black, Grey

**PACKAGING:** 310ml cartridge packed 1 x 12  
600ml foil packed 1 x 12 (Grey only)

#### PREPARATION

Surfaces must be clean, dry and free from dust, grease and other loose material. Any residues must be thoroughly removed prior to application of sealant. Priming is not usually necessary – most substrates only require priming if testing indicates a need or where sealant will be subjected to water immersion after curing.

#### APPLICATION

Cut the cartridge seal and screw on the nozzle, which should be cut to your required size. Using a skeleton gun, apply the sealant firmly into the gap or joint ensuring a good solid fill, making sure no air is trapped behind. If required place masking tape along edges, removing within 10 minutes of application.

#### FINISHING

Always tool down within 10 minutes of application using a stick wetted with soapy water. Clean any excess sealant immediately with white spirit. It is the user's responsibility to dispose of all packaging correctly.

#### HEALTH & SAFETY

Contains isocyanates. May produce an allergic reaction. Safety Data Sheet available on request. Keep out of the reach of children. Do not take internally. Use only in well ventilated areas. If after inhalation one feels unwell then supply fresh air. After any skin contact wash off immediately. After eye contact wash open eye for several minutes under running water. If any symptoms persist consult a doctor taking the cartridge with you. Dispose of empty packaging correctly.

DODWORTH BUSINESS PARK  
DODWORTH BARNESLEY  
SOUTH YORKSHIRE S75 3SP

## SX POLYFLEX HM POLYURETHANE TECHNICAL DATA SHEET CONTINUED

### LIMITATIONS

Among others not recommended for application on PE, PP, PTFE and bituminous substrates. Not suitable for continuous water immersion. Avoid exposure to high levels of chlorine. Avoid contact with alcohol and other solvent cleaners during the curing process. Do not apply in the presence of curing silicone sealants. Sealant may bubble if applied in a high moisture vapour environment. Slight yellowing may occur with white sealant if exposed to ultraviolet rays. **Please Note:** SX Polyflex HM is only harmful to aquatic organisms during application and the curing process. Once fully cured all harmful solvents will have evaporated making it inert. Curing time is a minimum of 12 days for a 1cm x 1cm joint depending on temperature and size of the joint. Adhesion tests prior to application are recommended. It is the user's responsibility to determine suitability. Store between +5°C and +25°C in cool dry conditions.

### LIABILITY

The information given is the result of our tests and experience and is believed to be accurate and reliable. However as Siroflex Limited cannot know all the uses its products may be put to, and as application methods are out of our control, it is the users responsibility to determine suitability of use.

| TECHNICAL DATA                        | DIMENSION                   | SX POLYFLEX HM POLYURETHANE     |
|---------------------------------------|-----------------------------|---------------------------------|
| Basis                                 |                             | polyurethane based compound     |
| Consistency                           |                             | non-sag paste                   |
| Density                               | g/ml                        | 1,16 – 1,20 depending on colour |
| E-modulus at 100%                     | ISO 37<br>N/mm <sup>2</sup> | 1,0                             |
| Shore-A hardness                      | ISO 868<br>°                | 45                              |
| Slump                                 | ISO 7390<br>mm              | <3                              |
| Shrinkage                             | ISO 10563<br>%              | <10                             |
| Elongation at break                   | ISO 37<br>%                 | >650                            |
| Shearing strength                     | ISO 4587<br>MPa             | 1,40                            |
| Elastic recovery                      | ISO 7389<br>%               | 70                              |
| Skinning time                         | 23°C & 50% R.H.<br>min      | 70                              |
| Curing speed                          | 23°C & 50% R.H.<br>mm/ day  | 3                               |
| Temperature resistance                | °C                          | -30> - +70                      |
| Application temperature range         | °C                          | +5> +40                         |
| Shelf life stored between +5°C /-25°C | Months                      | 12 (Cartridge)<br>9 (Foil)      |
|                                       | <b>width</b>                | <b>depth</b>                    |
| Minimum joint width                   | 4mm                         |                                 |
| Maximum joint width                   | 25mm                        |                                 |
| Maximum joint depth                   |                             | 20mm                            |
| Joint connection                      | 4-8mm                       | 6mm                             |
|                                       | 10-12mm                     | 8mm                             |
|                                       | 14-16mm                     | 10mm                            |
|                                       | 18-20mm                     | 12mm                            |
|                                       | 22-25mm                     | 14mm                            |

### QUANTITY ESTIMATOR

Width x depth of joint, x length (in linear metres) of joint, divide this by the volume of tube = number of cartridges required.

Full health and safety data information can be downloaded from [www.siroflex.co.uk](http://www.siroflex.co.uk)