

# Sylmasta Flex (Black / White / Clear)

## DESCRIPTION

This engineering grade adhesive sealant cures quickly to provide a permanently flexible, high strength waterproof seal and adhesive. It is specifically designed for engineering, automotive and glazing applications. Its high strength makes it an excellent flexible sealant and gap filling adhesive. It will not crack or shrink, has high bond strength to metal, wood glass, G.R.P, UPVC, brick and plastics.

## BENEFITS

- Permanently flexible
- Quick curing
- Low dirt pick up
- Temperature resistant to 260°C
- Waterproof seal
- Choice of 3 colour - Black, White, Translucent

## GASKETING APPLICATIONS

- Rocker covers
- Sump pans
- Water pumps
- Cam covers
- Gear boxes
- Oil pumps and more
- Coating conventional gaskets to improve the seal.

## OTHER APPLICATIONS

- Sealing glass to glass
- Sealing glass to aluminium and metal sealing
- Butt and channel glazing
- As an adhesive for fixing PVCu trims and cladding
- Sealing around worktops and laminated panels
- Cap glazing to metal, timber and PVCu window frames
- For aluminium gutter sealing
- Industrial uses, such as gasket sealing
- Refrigeration and hygiene seal.

## APPLICATION:

**Surface Preparation:** All surfaces must be clean, dry and free from dust or traces of contaminants, which may affect adhesion. To degrease, wipe with a pad soaked in solvent then with a clean cloth. Dust should be removed using oil-free compressed air.

Flex does not require a primer on most common substrates, except in the case of immersion or on certain substances such as cast, extruded or anodised aluminium, steels, ferrous metals, painted and most rigid plastics, concrete, wood. The primer should preferably be applied using a soft hair paintbrush. In the case of particularly porous substrates, a second coat may be applied after the first one has dried.

**Joint Dimensions:** The joint movement capability of sealants must be considered. In order to allow the sealant to operate under the best possible conditions, the minimum cross-section of the seal should be 5 x 5mm. For seals wider than 12mm, the thickness will generally be determined as being half this width.

**Applying Flex:** Once a seal backing material has been put in place (closed cell polyethylene foam with surface skin or open cell polyurethane foam), Flex should be applied ensuring that the seal is completely filled and all air pockets or voids are eliminated. Tool the seal to ensure good contact between the sealant and the bonded surfaces. This should be carried out using a dry spatula before the surface skin is formed.

Areas soiled with fresh sealant may be cleaned with a dry pad or a pad soaked in a solvent (compatible with the substrate). Any cured sealant can be removed by scraping (e.g. using a razor blade).

## LIMITATIONS:

Flex must not be used on sensitive surfaces which could react with the acetic acid which is released during cure, nor should it be used on materials where migration of constituents can take place, e.g. certain rubbers.

Flex must not be used for structural glazing applications.

Flex should not be painted, (due to poor coverage and adhesion of paints) and is not recommended where abrasion or physical abuse will be encountered.

# Sylmasta Flex

**TECHNICAL FEATURES**

COLOUR.....	Black, White or Translucent
CONSISTENCY: .....	Non-Sag paste
DENSITY:.....	1.03g ml-1
PROPERTIES ON 2mm THICK FILM (NF T 46002):	
MODULUS AT 100% ELONGATION:.....	0.50MPa
TENSILE STRENGTH: .....	2.10MPa
ELONGATION AT BREAK:.....	500%
TEMP. RESISTANCE: .....	-50 to +260°C
APPLICATION TEMP. RANGE: .....	+5 to +40°C
JOINT MOVEMENT CAPABILITY.....	25%
ELASTIC RECOVERY (EN 27389).....	100%
SAG: .....	<2mm (ISO 7390)
VISCOSITY AT 20°C (strain 3 kPa):.....	approx. 320 Pa.s
DIELECTRIC CONSTANT:.....	1.5Mhz
TACK FREE TIME:.....	approx. 20 mins
SKIN FORMATION TIME:.....	approx. 7 mins
CURING TIME (Approx):	
1 Day.....	4.5mm
3 Days.....	8.0mm
7 Days.....	10mm
SHORE A HARDNESS: .....	25° (3 sec. ISO 868)
Shore A hardness of the cure material after exposure to heat	
After 500 hours at 250°C:.....	22° (DIN 53505)
After 500 hours at 270°C:.....	15° (DIN 53505)
After 1000 hours at 250°C:.....	30° (DIN 53505)
After 1000 hours at 270°C:.....	27° (DIN 53505)

*Sylmasta Flex conforms to the requirements of ISO 11600 G 25HM, BS5889 (1989) type B*

**STORAGE**

Should be stored out of direct sunlight in dry, frost free conditions at temperatures below and 30°C. Under such conditions shelf life will be 12 months from the date of despatch.

**PRESENTATION**

RTVB/310ml	Black	310ml Cartridge
RTVW/310ml	White	310ml Cartridge
RTVC/310ml	Clear	310ml Cartridge

**See separate datasheets for:**

RTVR/300ml Flex Red  
PPB/200ml Flex PowerPack BLACK  
PPR/200ml Flex PowerPack RED

**HEALTH & SAFETY IN USE**

Wear suitable rubber or plastic coated gloves.

*Whilst all reasonable care is taken in compiling technical data on the Company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company. It is the customer's responsibility to satisfy themselves that each product is fit for the purpose for which they intend to use it, that the actual conditions of use are suitable and that in the light of our continual research and development programme the information relating to each product has not been superseded.*