SOUDAL

Technical Data Sheet

SoudaFoam Flex

Revision date: 11/12/2015

Technical data:

Base	Polyurethane
Consistency	Stable Foam, thixotropic
Curing System	Moisture Cure
Skin Formation	Ca. 6 minutes (20°C/65% R.H.)
Drying time	Dustfree after 20-25 min. at 20°C
Curing Rate	Ca 1 hour for a 1.2" bead
Foam Yield	24 oz yields 6.6 gallon of cured foam
Yield (ASTM C-1536) (for 24 oz)	4005 linear feet (1221m) @ ¼" (6.4 mm) dia. bead
Shrink	Very limited
Postexpansion	Very limited
Cellular Structure	Fine cellular structure
Specific Gravity	Ca. 25kg/m³ (extruded, fully cured)
Temperature Resistance	-40°F to +194°F when cured
Colour	Champagne
Fire Class	B2 (DIN4102 part2)
Air penetration (DIN 18542)	a<0.1m³/[h.m.(daPa)$^{2/3}$]
Vapour permeability (DIN EN ISO 12572)	Water diffusion resistance μ = 20
Water Absorption	1% Vol.
Acoustic Rating (EN ISO 717-1)	$R_{ST,W}$ (c;c_{tr}) = 60dB (-1; -4)
Permanent deformation at pressure (ISO 1856) – 50% compression 22h 1 day recovery	Ca 6%
Insulation Factor (DIN52612)	35mW/meter Kelvin
Shear Strength (ASTM C-273)	3.6 psi
Elastic Recovery (ISO 1856)	Until 92% (75% compressed)
Compressive Strength (ASTM D-1621)	2.2 psi
Change of Volume (DIN EN ISO 10563)	<5%

(values may change slighty due temperature, humidity , surface and way of application)

Product:

SoudaFoam Flex is a one-component, self-expanding, ready to use polyurethane foam. It is fitted with a plastic adaptor head for use with a foam applicator gun. It contains CFC-free propellants, which are completely harmless to the ozone layer.

The product has a minimal expansion after application (less than 50%) and is therefore very economical to use.
The foam is very elastic and has a very high Acoustic Rating and Thermal Insulation value.

SOUDAL

Technical Data Sheet

SoudaFoam Flex

Revision date: 11/12/2015

Characteristics:
- Very high elastic recovery
- Copes with extreme mechanical movement without cracking
- Excellent adhesion on most substrates (except Teflon, PE and PP)
- High thermal and acoustical insulation performance
- Very good filling capacities
- Excellent stability (no shrink or post expansion)
- Very precise application due to the foam applicator gun system
- Low expansion
- Good compressibility

Application areas:
- Good applicability in expanding joints.
- Vibrating constructions
- Use as fixing foam while minimizing noise transmission
- Impact and shock damping
- Sealing of window- and doorframes
- Filling of cavities
- Sealing of all openings in roof constructions
- Creation of a soundproof screen
- Connecting of insulation materials and roof constructions
- Application of a soundproofing layer on motors
- Improving thermal isolation in cooling/heating systems

Shelf life:
- 18 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°.
    - Always store can with the valve pointed upwards

Packaging:
Aerosol can 24 oz with gun adaptor.

Application:
Shake the aerosol can for at least 20 seconds. Fit the gun on the adapter. **Moisten surfaces with a water sprayer prior to application to have the optimal performance to elasticity, noise reduction and cellular structure** . Fill joints and cavities for 65 %, as the foam will continue to expand slightly.
Repeat shaking regularly during application. If you have to work in layers repeat moistening after each layer. Fresh foam can be removed using Soudal Foamcleaner or acetone. Cured foam can only be removed mechanically. Working temperature 41°F to 95°F. (68°F-77°F recommended) Due to the flexibility of the product, it is recommended to use a sharp knife to cut the foam.

Health and safety recommendation:
- Apply the usual industrial hygiene.
- Wear gloves and safety goggles.
- never burn away PU-foam
- Consult the label for more information.

Remarks:
- Work in layers and repeat moistening after each layer
- cured PU foam must be protected from UV-radiation by painting or applying a top layer of sealant (silicone, MS Polymer, acrylic and PU-sealant)
- Respect the cleaning and storage instructions enclosed in the Foam Gun box.

Norms and certificates:
- Fire rating B2 (DIN 4102-1) Prüfzeugnis P-SAC 02/III-164 (MFPA)
- Heat transmission rating (DIN 52612) PB 070598.1 Hu (MPA Bau Hannover)
- Acoustic Insulation (EN ISO 717-1) PB 16733428 (IFT Rosenheim)
- Vapour penetration (DIN EN ISO 12572) PB 50933428 (IFT)
- Air Penetration (DIN 18452) PB 10533428 (IFT Rosenheim)