



Perfect Solutions Guide



Perfect Finishing

A must for architects, consultants, engineers, developers and contractors

■ Production sites all over the world



Soudal PU foam production: Turnhout, Belgium

Belgium - since 1966

In 1966, Vic Swerts, the owner of Soudal, has been one of the pioneers to start the commercial production of silicone sealants. The first year 3.000 cartridges were produced which grew over the years to more than 500.000 cartridges a day. Production has expanded over the years to other sealants like acrylics, polyurethanes and MS polymers and all kinds of adhesives. From 1982 PU foams were added to the product line.



Soudal PU foam production: Pionki, Poland

Poland - since 2009

In 2008, the finishing touches to the construction of a brand new 8,000 m² production facility inside a 40,000 m² plus ground in the Polish town of Pionki. As of February 2009 some 100 new staff started the production of PU foams and sealants in new, high-tech production lines that are entirely geared to the fast-growing Polish & Eastern European markets.



Soudal PU foam production: Shanghai, China

China - since 2010

In 2010 Soudal signed an agreement to take over Shija, the second largest supplier of PU foams in the Chinese market. Shija was one of the major manufacturers in China with over 10 million cans of PU foam produced annually. With strong growth, China is rapidly developing into one of largest economies worldwide. Through this acquisition Soudal has gained access to this market, with a significant presence in the construction sector.



Soudal sealant production: Istanbul (Turkey)

Istanbul (Turkey) - since 2011

On 31 October 2011 Soudal NV took over all of İşik Group's production and sales activities for sealants, adhesives and PU foams from the family shareholder. This take-over is a sign of Soudal's ambitions to expand and make its presence felt around the globe.



McCoy Soudal Plant and R&D Centre (Bawal), Haryana

India (Bawal, Haryana) - since 2012

November 4th 2012 was a proud moment for McCoy Soudal, a 50:50 Joint Venture between the McCoy Group (India) and Soudal Group (Belgium) to have inaugurated officially state-of-the-art plant, a multi crores investment for manufacturing sealants, adhesives and PU foams in India. The plant spreads across 200,000 sq. ft. & is one of Asia's largest manufacturing plants in its category, with a capacity close to 20 million (2 Cr.) cartridges per year of sealants & adhesives, later to be expanded by PU foams in India.

Production sites all over the world



Soudal PU foam production: TKK Srpenica

TKK Srpenica (Slovenia)- since 2013

Soudal is proud to announce the acquisition of TKK Srpenica, the largest independent manufacturer of PU Foams, Sealants and concrete additives in South Eastern Europe. TKK is located in Srpenica in the Republic of Slovenia, employs over 200 co-workers and is expected to reach a turnover of some €50 Mio in 2013.



Soudal sealant production: Elizabethtown (USA)

Accumetric LLC (USA)- since 2014

Accumetric LLC, an independent manufacturer of silicones, sealants & lubricants in Elizabethtown, Kentucky. Accumetric has 150 employees globally & has revenue of approximately \$50million (37million EURO) in 2014.



Soudal sealant production: Latvia

Tenachem (Latvia)- since 2015

Soudal announces the full acquisition of Tenachem (Latvia), a leading producer of sealants specially developed for sealing double glazing. With this purchase, Soudal has added a new technology to its already impressive product portfolio. Tenachem has 73 employees and currently exporting 95% of its products in around 40 countries worldwide.

15 production sites across the globe



■ Polyurethane foams

A perfect solution for every task!

Professionals in the construction industry should know the benefits PU Foams:

- **Self-expanding**
- **Easy to use**
- **Fire retardant**
- **Durable**
- **Thermal insulation**
- **Acoustic insulation**

Curing of PU Foams?

- **One component** foams cure through a reaction of the prepolymer with moisture. After full cure, they ensure a strong bond and offer excellent insulation values. In order to optimize the curing and good cell structure of the foam it is best to moisten the substrates with water spray beforehand.



Application systems?

- **Hand held foam** can be extruded without a gun – for smaller jobs this is a very fast and easy solution. Triple expansion.
- **Gun grade foam** is much easier to extrude precisely into a joint and to obtain a perfect finishing – especially interesting for larger projects where a lot of PU foam has to be used. Low expansion.
- **Genius Gun** is latest innovation in the way of applying PU foam. This new system is a ready-to-use solution created to maximize convenience while applying PU-foam.

(Soon to be launched in India)

Applications

PU foams are very versatile products and can be used in wide range of applications:

- Installation of door and window frames
- Sealing and filling of gaps, holes, cavities and wall breakthroughs
- Insulating against heat loss
- Sound-proofing
- Insulation of water pipes, HVAC ducting (heating, ventilation and air-conditioning), bathtubs, tubes.
- Installation and sealing of air-conditioning units
- Bonding of corrugated iron sheets and roof tiles
- Sealing around the window against draught
- Fills joints between walls and wall panels
- Seals and fills connection joints
- Installation of electrical conducting and junction box



Hand held foam



Gun foam - Click & Fix



Genius gun

Door frame installation with PU Foam

More than 1 million door frames installed since 2011.

Developer's choice: DLF, Jaypee Group, Prestige, Sobha, L&T, Brigade, Lodha Group, Raheja, Hiranandani, Kalpataru, Oberoi, Panchsheel, Marver Realtors, Ario, Puri Construction & many more ...



PU foam application

Internal door frame:

- For a standard door frame of 210x90x210 cm only PU foam can be used to bond, seal, and fix the door frame.

External door frame:

- For exterior/main door/balcony door frames we recommend to use minimum 2-4 anchors equidistant in combination with PU foam.
- Fire escape doors if exposed to open areas should also be supported by anchors.

SoudaFoam PRO:

High Performance Gun-Grade PU Foam

- Gun type foam
- Precise dosing
- Low expansion
- Less waste
- Filling & fixing
- Excellent adhesion on uPVC

SoudaFoam 1K:

High Performance Straw Grade PU Foam

- Straw foam
- Triple expansion
- Filling



Gun foam vs. Straw foam

To know more applications & products detail please read [Door Application Manual](#)

Door frame installation with PU foam

Step 1: Preparation of the surface



Opening without frame.



Surface needs to be clean, dust-free, free of oil & grease.



Slightly humidify the surface & the door frame before applying the foam.

Step 2: Align the door frame



Align your door frame and block it with wooden blocks between frame & wall.



Keep a gap of 10 mm to 20 mm between wall and door frame on the three sides of the frame.



Aligned door frame.

Step 3: How to apply PU foam?



Shake the PU foam can minimum 20 times before application to obtain the best PU foam quality.



Hold the PU foam can upside down & extrude the foam by pressing the bar/application gun.



Small gaps (less than 5-7 mm) can be filled by using plastic extension which comes with every application gun.

Step 4: How to finish the PU foam application?



Spray some additional water on applied PU foam on both sides of the door frame.



After use, clean the valve & tube immediately with Gun & Foam Cleaner.



Cut the spoiled foam at the time of plastering.



Do not touch the frame during curing of the PU foam otherwise you will break the cell structure and the adhesion will be lost.



After curing PU foam can be plastered or covered with architrave/moulding.



Perfect installed door frame with PU foam.

■ Multipurpose adhesive: Soudabond Easy

30% saving

Soudabond Easy

A revolution in construction bonding. Easy bonding, fast and safe, clever and clean.

- Insulation panels
- Drywall panels
- Plasterboard panels
- Bricks walls
- ACC blocks
- Electric fittings



Up to 95% less weight & space

- Saving in transport costs
- Saving in storage space
- No weight concerns (stressed back)

Sticks to almost all surfaces even wet surface

- Inside and outside applications
- High safety margins due to tested* bond strength on Polystyrene (EPS + XPS), PU/-PIR, Phenol Resin hard foam panels, concrete, plaster, paints, bitumen rolls, bitumen paint, timber, metals, hard PVC, gypsum panels, ...
- * tested by IFBT Leipzig

Improved safety

- Fire rating B2 to DIN 4102
- TÜV approved Aerosol can system (tested and monitored according to EN 417 for pressure resistance, bursting and falling)

Saves up to 30% in time

- No cleaning
- No mixing, no water & electricity required
- No cleaning of tools & machinery necessary
- Short waiting time (max 1 hr.)

Excellent insulation value: Fill & Bond

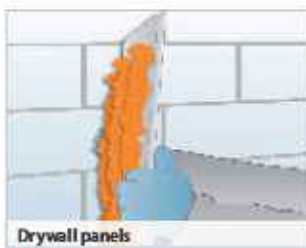
- Thermal insulation value is similar to the value of the insulation materials (rockwool, PS, ...) which are bonded
- Also suited for filling of cavities and joints
- Excellent acoustic insulator
- No cold bridges

Clean and quiet application

- No drilling required
- No dust
- No noise
- No spilling



Insulation panels



Drywall panels



Bonding of ACC block



Bonding of ACC block

Multipurpose adhesive: Soudabond Easy



1 Insulation of flat roofs – bonding of insulation panels

- Alternative to mortar based adhesives
- Fast and clean application
- Bonds to timber, metals, plastics, render, concrete, bricks,
- Also suitable for filling of joints and Cavities
- 1 can yields up to 7m²

2 Exterior Cellar Insulation – bonding of insulation panels

- Alternative to bituminous adhesives
- Fast and clean application
- Perfect bond to bitumen
- Can be applied at temperatures as low as -5°C
- Also suitable for filling of joints and cavities
- 1 can yields up to 14m²

3 Bonding of drywall panels

- High bond strength-no mechanical fixing required
- Ready to plaster or paint in 1 hour after application
- Suitable for drylining, plasterboard and gypsum panels, fibrecement panels, etc.
- 1 can yields up to 7m²

4 Façade Insulation – bonding of insulation panels

- Alternative to mortar based adhesives
- Fast and clean application
- Bonds to timber, metals, plastics, render, concrete, bricks, ...
- Also suitable for filling of joints and cavities
- 1 can yields up to 7m²

5 Building of brick walls - construction of interior walls

- 1 canister replaces 1 bag of 25kg powder adhesive
- No more premixing required
- Fast, easy and clean application
- Suitable for AAC blocks, brickwork, etc.

6 Bonding of insulation panels on attic floors

7 Bonding of form work and form boards

8 Installation of electric fittings

Window package

Complete solution for all types of windows (uPVC, aluminium, wood).

Profile manufacturer's first preference: Fenesta, Lingel, Deceuninck, Veka, Aluplast, Encraft, Rehau, Kömmerling, NCL Wintech, Ado & many more ...



Silirub Color

- Neutral cure sealant
- UV & weather resistance
- Exterior & interior application
- Air & water tight
- Excellent adhesion (uPVC, wood, aluminium, metal, concrete)

Available colours Silirub Color:



Silirub PS

- Neutral cure sealant
- UV & weather resistance
- Exterior & interior application
- Air & water tight
- Excellent adhesion (uPVC, wood, aluminium, metal, concrete)

Available colours Silirub PS:



Acryrub Pro+

- Paintable sealant
- Interior perimeter sealing
- Very easy to apply
- Aesthetical finish

Soudafoam Pro

- Extra adhesion strength
- Low air transmittance
- Thermal insulation
- Sound insulation



UWDM uPVC Windows & Doors Manufacturers Association, known as, UWDM is a non-profit body, formed to create value proposition benefiting all from use of uPVC windows across India. **McCoySoudal is member since 2013.**



To know more applications & products detail please read **Window Manual**

Window frame application

Step 1: Align and fix window frame with anchors



Keep a gap of minimum 5mm between wall and window frame on the four sides of the frame.



Before applying PU Foam or sealant, first fix the window frame with anchors.



Clean the surface and make sure that it is totally free of dust, moisture and grease before applying the sealant.

Step 2: How to apply PU foam?



Slightly moisten the joints with water spray before applying PU foam.



Shake the PU foam can 20 times before applying & hold the PU foam can upside down & extrude the foam by pressing the bar/application gun.

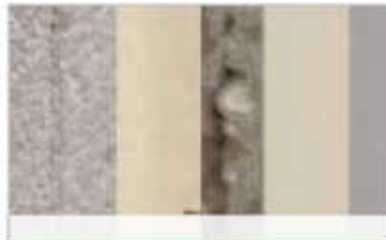


Let the foam cure, cut the spoiled foam at the time of plastering. Before applying the silicone or acrylic sealant, make sure there is enough depth for the sealant (minimum 5mm), if required push the foam deeper into the joint.

Step 3: How to apply sealant?



Cut the nozzle at an angle 45° to the desired bead size. Load the cartridge into the sealant gun.



Fix masking tape on both sides of the joint leaving exact gap for filling. This will make the joint look neat, clean and uniform.



Fill joint with sealant. Use right product for right application. Gap filler for interior and Sillrub PS for exterior application.

Step 4: How to finish the sealant application?



Applied sealant before finishing.



Immediately after filling the joint, the sealant should be tooled (with soapy water solution) either with finger or with a pallet knife or finishing tool.



Remove the masking tape before the sealant starts to skin over.

Cleaning, gap & crack filling solutions for uPVC doors & windows

uPVC Solvent Cleaner:

A ready to use solvent based cleaner specially designed for removing grime, excess grease, uncured sealant and ingrained marks from uPVC window & door frames, trim and cladding.

Particularly suitable for removing installation marking in an easy wipe on, wipe off action.

uPVC Cream Cleaner:

A naturally coloured, non-tainting general purpose cleaner containing a mild abrasive which will cut through grease, dirt and Stubborn stains leaving a sparkling finish.

This gentle but effective formula has a double cleaning action which takes over where other cleaners fail.

Gap Filler - PVC Resin:

Gap Filler is a flexible sealant designed for sealing of PVC and for repair of damaged PVC coatings and PVC coated metals.

- Sealing & repairing of PVC to itself and to porous substrates (brickwork, wood, etc).
- Gap filler between adjacent sheets of PVC and PVC coated metals in cold storage units.
- Use on PVC in guttering, roofing, prefabricated building.
- Sealing & repairing of PVC coatings.



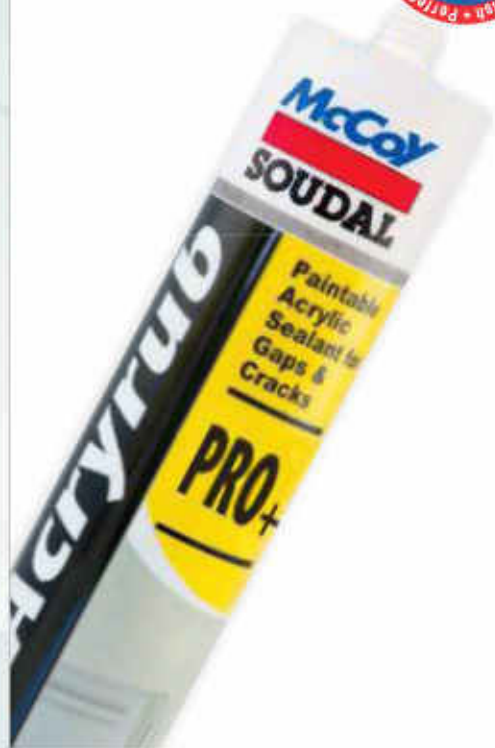
Paintable acrylic sealant

Gaps and cracks filling sealant.

**Go for perfect finishing.
To be used before any painting job.**

**SAVE
TIME, MONEY
& LABOUR**

**Perfect
Finish**



Application areas:

- Filling all gaps & cracks
- Perimeter sealing around doors and windows
- Modular kitchen sealing
- Cupboard sealing

Properties:

- Easy tooling & finishing
- Non toxic & non flammable
- No mass -water clean up
- Paintable
- Low VOC



Interior door sealing



Wall to wall sealing



Paintable



Before applying Acryrub PRO



After applying Acryrub PRO

Bathroom & kitchen sealant

Get perfectly finished kitchen.

Plumbers, contractors, builders & developer's first choice for aesthetic finish.



Silirub B&K:

Silirub B&K is a neutral cure silicone for all porous & non-porous substrates like stones, ceramics, concrete, plastics & glass. Silirub B&K is specifically designed for sanitary fittings, including bath, shower, sinks and urinals.

Benefits of sanitary silicone:

- Anti-fungal, mildew/mould resistant
- Suitable for all wet area applications
- Resistance to cleaning agents
- Nice aesthetic finish
- Waterproof sealant
- Non-corrosive



Industrial flooring and expansion joints

PU & MS Polymer sealants.

Low & high modulus sealants for vertical or horizontal construction, expansion and floor joints.

Soudaflex Construction FC:

Fast curing permanently flexible polyurethane sealant for sealing joints of industrial floors, expansion joints, structural connections of metal, concrete, polyester and wood.

Soudaseal 240FC:

Permanently flexible hybrid adhesive-sealant for structural connections of metal, concrete, polyester, glass and wood. Resistant to UV radiation.

Primer 100:

A primer for porous substrates, applied before using PU sealants.

Primer 150:

A primer for porous substrates, applied before using hybrid sealants.



Expansion joints



Floor joints

How to apply:

- Cut expansion joints.
- Tape the edges.
- Put backer rod & apply primer.
- Apply the sealant.
- Remove tape before skin formation.





All types of substrates

It does what it says, and more ...

One product seals all, bonds all.
All surfaces, all materials for all applications.



Fix ALL High Tack:

Fix ALL High Tack is a high quality, neutral, elastic, one-component adhesive sealant based on SMX-Polymer with a very high initial tack.

- High initial tack reducing need for initial support
- Fast curing, good extrudability, high shear strength after full cure (no primer)
- Stays elastic after curing and very sustainable
- Good colour stability, weather and UV resistance

Fix ALL Crystal:

Fix ALL Crystal is a high quality, crystal clear, neutral, elastic, one-component adhesive based on SMX-Polymer.

- Crystal clear formulation
- Excellent adhesion on nearly all surfaces, even if slightly moist
- Transparent and elastic bonding in construction and building applications
- Permanently elastic after full cure

Fix ALL Flexi:

Fix ALL Flexi is a high quality, neutral, elastic, one-component construction joint & adhesive sealant based on SMX Hybrid Polymer.

- Strong elastic bonding in vibrating constructions
- Stays elastic after curing and very sustainable
- Excellent adhesion on nearly all surfaces, even if slightly moist
- Impervious to mould, contains ZnP (biocide with fungicidal action)
- Very low emission, EC1 PLUS R certified



Fix ALL Turbo:

Fix ALL Turbo is a high quality, neutral, elastic, one-component adhesive-sealant with very fast strength build-up based on SMX-polymer.

- Very high final strength & good extrudability
- Quickly manipulable and very fast build-up of strength with thin adhesive layer and on porous substrates
- Good colour stability, weather and UV resistance

Fix ALL X-Treme Power:

Fix ALL X-Treme Power is a high quality, neutral, elastic, one-component adhesive sealant based on SMX-Polymer with an extremely high initial tack of min. 400 kg/m².

- Extreme high initial tack of min. 400 kg/m²
- Good workability with included triangular shaped nozzle
- Good colour stability, weather and UV resistance



Mirror pasting



Sealing in shower cubicles



Bonding of all materials (interior & exterior)

Super Bond

All types of substrates.

Nail free construction adhesive for mirrors, ACP, wood, stones, metals and decorative materials.



Super Bond:

Super Bond is a solvented instant grab, high strength construction adhesive based on synthetic rubbers.

- Repositionable up to 20 minutes after application
- High bond strength & good initial grab
- Replaces nails & screws
- Doesn't attack polystyrene
- Adhesion on uneven surfaces

Applications:

- ACP and other panels
- Mirrors
- All decorative materials
- Architraves
- Skirting board



Decorative material pasting



Skirting board bonding



Tile bonding

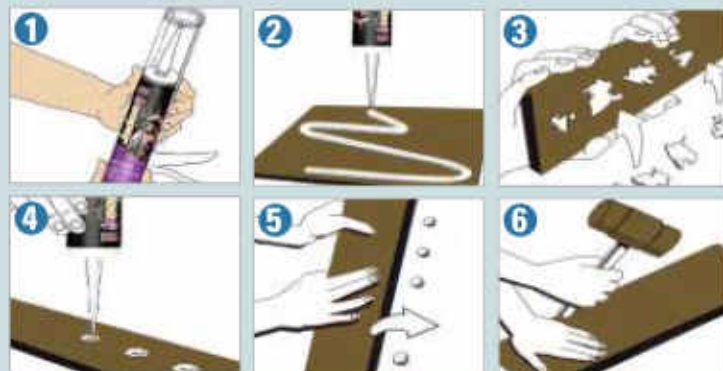


Wood bonding



Mirror pasting

How to apply:



Non-staining solutions

Silicone oil is integrated within the polymer, which means it cannot migrate into natural stones.

**Especially designed for the use of on natural & engineered stones.
Non-bleeding, Non-streaking on glass and façade panels (like ACP).**



Staining problem on natural stone



Non-staining-granite sealing



Non-staining-natural stone in bathroom

Silirub MA:

Non-staining neutral silicone sealant for glass, ACP & stone.

Application:

Sealing of joints of marble, granite and other porous natural stones. Cladding joints of facades for ACP, glass to glass and other metal to metal joints in glazing jobs. Specially designed as **Non-Streaking, Non-Bleeding, Non-Staining Sealant.**

Benefits:

- Non-staining on natural stones like marble and granite
- Excellent UV & weather resistant
- High movement accommodation
- Fungus resistant
- Matt finish
- Contains powerful and long acting fungicides (conformity to DIN EN ISO 846 standard)
- Conforms to major international sealant standard - DIN/ISO 11600 F 25 LM
- Withstands detergents and degreasing

Available colours:



Transparent



White



Black



Marble grey



Anthracite



Jasmin



Travertine



Natural stone beige



Stone grey



Staining problem on natural stone



Complete façade solutions

Weatherseal silicone sealant.

Developed for weather sealing of joints in the façade industry, ACP and glass.



Façade glazing



Spider glazing

Silirub 989:

New generation weather sealant for ACP & glazing.

Application:

Silirub 989 is a high performance, low odor, one-component joint and glazing sealants, based on neutral silicone. Silirub 989 has been developed for weather sealing of joints in the façade application.

Benefits:

- Long open time
- Compatible with sealants for double glazing based on polysulphides & silicones
- Resistant against UV-radiation, rain, frost, wind, ozone and extreme temperatures



Silirub WSL+:

Developed for weather sealing of joints in the façade industry, ACP & glass.

Application:

Silirub WSL+ is a high-quality neutral cure, highly elastic one-component joint sealant based on silicones. Developed for weather sealing of expansion joints in the façade industry.

Benefits:

- Special aluminium adhesion promoters
- Excellent UV & weather resistant
- High movement accommodation
- Compatible with secondary sealant in insulating glass units (IG's)

Available colours:



White

Grey

Black



Silirub 989 & Silirub WSL+ sausage application



Finishing sealant

Reliable fire retarding solutions

Safely evacuate the building

Compartmentalisation is an essential component of passive fire protection for buildings. The basic idea is that fire and smoke are contained in one 'compartment' and that the propagation is slowed down. This enables the safe evacuation of people from the building and allows the fire brigade to fight the fire more efficiently. It also limits damage in financial terms.



Fire inside building

A fire retardant 'compartment' consists of fire retarding walls and ceilings. The joints between walls, ceiling, support beams, have to be sealed in such a way that the fire does not propagate freely through them.

The fire resistance of these joint systems must be tested according to national or European standards in independent laboratories. These results are summarized in the test and classification reports.

"Fire resistance" rating "Reaction to fire" rating

The "fire resistance" rating typically means the duration in minutes for which a passive fire protection system can withstand a standard fire resistance test.

"Reaction to fire" rating of a material indicates its contribution to the propagation of flames in a fire and covers flammability. A well known reaction to fire rating is the German DIN4102 Part 1, where the rating are A1, a2, b1, b2, b3.

In the origin and the start of a fire, "reaction to fire" characteristics of products are important, while in a fully developed "fire resistance" parameters of complete assemblies apply. Fire building regulations make a clear distinction between these two conditions. Therefore a product with a "reaction to fire" rating (e.g. B1) does not give any guarantee on stopping a fire, while a 60 min. "fire resistance" rated product indicates that it will withstand a fire for a least 60min. in a certain system while keeping its function.



Fire retardant sealing of opening in wall



Cable tray covered with fire blanket

■ Fire retardant solutions

Reliable fire retarding solutions



Fire range

SOUDASEAL FR

- Fire retardant hybrid sealant
- Paintable with most coatings
- Very good elastic properties in expansion joints
- Does not require any fire retardant backing rod
- Isocyanate-solvent & silicone free

SOUDAFOAM FR

- Fire retardant one-component PU foam
- Light red contoured for easy recognition
- Excellent heat & sound insulation properties
- Easy application in door frames & connection joints
- Excellent adhesion to a wide range of building materials

FIRECRYL FR

- Water based fire retardant acrylic sealant and crack filler
- Intumescent in a fire situation
- Does not require any fire retardant backing rod
- Suitable for interior joints with low/medium movement

FIRE SILICONE B1 FR

- Fire retardant silicone
- Very good elastic properties in expansion joints
- Does not require any fire retardant backing rod
- Excellent adhesion to a wide range of building materials
- The fire range also includes the following heat-resistant products: (HT)

FIRECEMENT HT

Hard setting sealant for the sealing of ovens, furnaces etc. Resists temperatures of up to 150°C. Excellent adhesion to a wide range of building materials. Suitable for interior applications.

SILIRUB HT-N

Black neutral cure silicone with high temperature resistance for the sealing and joining of a wide range of materials, which are exposed to high temperatures. Withstands temperatures of up to 280°C.

GASKETSEAL

Red acetic cure high temperature silicone for the sealing of gaskets, hot water installations, motors, etc. Withstands temperatures of up to 285°C.

FIRE BLANKET

Fire Blanket is a fire retardant, intumescent plasto-elastic blanket based on an acrylic dispersion. The product has a self-adhering backside.

- Resist the passage of fire & smoke
- Intumescent in contact with fire
- Color fast & waterproof after curing

SOUDAFOAM FR 2K-B2

Soudafoam FR 2K-B2 is a two-component, self-expanding, ready for use polyurethane foam with fire-resistant.

- High insulation, thermal and acoustic
- Strong fire-resistant properties



Wide range of products

Experts in sealants, adhesives & PU foams



Product available in more than 120 countries
 For more information kindly log on www.mccoysoudal.com | www.soudal.com
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