



Now in India



Industry

Bus, Coach, Car, Truck, Train, OEM, OES Solutions Guide



- Soudaflex: PU Sealants
- Soudaseal: Hybrid Sealants
- Soudafoam: PU Foams
- Soudabond: Adhesives
- Silirub: Silicone Sealants





Experts in Sealants, Adhesives & PU foams

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Soudal annual report

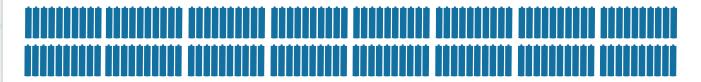
Key Figures 2014

Annual key figure Soudal Group

(In thousand €)	2014	2013	2012
Gross Turnover	564.751	489.395	436.393
Operating Result	33.904	27.518	22.969
Net Result	21.734	16.580	16.948
Cash Flow	40.283	30.701	28.767
Added Value	139.944	114.751	101.632
Balance Sheet Total	300.129	269.119	214.451
Investments	40.800	35.700	22.000
Workforce	2.195	1.843	1.559

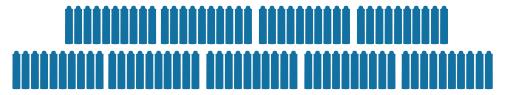
200 MILLION CARTRIDGES PRODUCED

SEALANTS & ADHESIVES



100 MILLION CANS PRODUCED

PU FOAMS



Production sites all over the world





Soudal PU foam production: Shanghai, China





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.

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.

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.

Istanbul (Turkey)- since 2011

On 31 October 2011 Soudal NV took over all of Işik 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.

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 (55 Cr.) 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



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 coworkers and is expected to reach a turnover of some €50 Mio in



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 \$50 million (37 million EURO) in 2014.



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.

13 production sites across the globe



Continuous investment in Research & Development

Soudal constantly invests in R&D activities, in order to offer the latest innovations & to improve, underline the quality of the existing product range.

ISO certification

In 1992 Soudal received ISO 9002 approval. The ISO certificate is a first impression of solid quality awareness. This however does not stop some important business partners from conducting their own audits. Soudal and McCoy Soudal are always prepared to cooperate in such activities, confident that its transparency will only enhance the quality relationships with its partners.

McCoy Soudal has since it's start in 2010 ISO 9001:2008 certification in India.

TÜV SÜD Quality label

In 2008 Soudal underlined the quality of its PU Foams even further by letting TÜV SÜD - a worldwide renowned - company in the field of testing and certification according to the very strict European Norm EN417 – conduct an entire range of tests.

Soudal R&D center

In 2011 Soudal opened a new R&D building offering room to more than 30 R&D engineers working day in day out on researching and developing better and new formulas.

The new 5-story high project with a floor area of over 3000 m² represents an investment of €10 million.

In 2013 McCoy Soudal has opened the first sealant R&D center in India (Bawal) which will be further expanded in the years to come to continuously further improve our products to the extreme Indian climate condition.











Soudal sealants application matrix

Product application guide

Soudal sealants application matrix

Bonding applications:					
Substrate 1	Substrate 2	Soudaflex Polyurethanes	Soudaseal MS/Hybrid Polymers		
GLASS to	FRP - GI - MS - ALU - SS	Soudaflex 280 (600ml)	Soudaseal 665 (600ml)*		
FRP to	FRP - ALU - GI - MS - SS - PLYWOOD	Soudaflex 621 (600ml)	Soudaseal 660 (600ml), Soudaseal 665 (600ml)		
ALU to	FRP - ALU - GI - MS - SS - PLYWOOD	Soudaflex 621 (600ml)	Soudaseal 660 (600ml), Soudaseal 665 (600ml)		
GI to	FRP - ALU - GI - MS - SS - PLYWOOD	Soudaflex 621 (600ml)	Soudaseal 660 (600ml), Soudaseal 665 (600ml)		
MS to	FRP - ALU - GI - MS - SS - PLYWOOD	Soudaflex 621 (600ml)	Soudaseal 660 (600ml), Soudaseal 665 (600ml)		
SS to	FRP - ALU - GI - MS - SS - PLYWOOD	Soudaflex 621 (600ml)	Soudaseal 660 (600ml), Soudaseal 665 (600ml)		
PLYWOOD to	FRP - ALU - GI - MS - SS - PLYWOOD	Soudaflex 621 (600ml)	Soudaseal 660 (600ml), Soudaseal 665 (600ml)		
CLEAR GLASS to	FRP - GI - MS - ALU - SS	Fix ALL High Tack & Fix ALL Crystal			

Sealing applications:					
Substrate 1	Substrate 2	Soudaflex Polyurethanes	Soudaseal MS/Hybrid Polymers		
GLASS to	FRP - GI - MS - ALU - SS	Soudaflex 621 (600ml)	Soudaseal 665 (600ml)*		
FRP to	FRP - ALU - GI - MS - SS - PLYWOOD	-	Soudaseal 660 (600ml), Soudaseal 665 (600ml)		
ALU to	FRP - ALU - GI - MS - SS - PLYWOOD	Soudaflex 621 (600ml)	Soudaseal 660 (600ml), Soudaseal 665 (600ml)		
GI to	FRP - ALU - GI - MS - SS - PLYWOOD	Soudaflex 621 (600ml)	Soudaseal 660 (600ml), Soudaseal 665 (600ml)		
MS to	FRP - ALU - GI - MS - SS - PLYWOOD	Soudaflex 621 (600ml)	Soudaseal 660 (600ml), Soudaseal 665 (600ml)		
SS to	FRP - ALU - GI - MS - SS - PLYWOOD	Soudaflex 621 (600ml)	Soudaseal 660 (600ml), Soudaseal 665 (600ml)		
PLYWOOD to	FRP - ALU - GI - MS - SS - PLYWOOD	Soudaflex 621 (600ml)	Soudaseal 660 (600ml), Soudaseal 665 (600ml)		
VINYL to	FRP - ALU - GI - MS - SS - PLYWOOD	Soudaflex 621 (600ml)	Soudaseal 660 (600ml), Soudaseal 665 (600ml)		

ALU: Aluminium FRP: Fibre Reinforced Plastic GI: Galvanized Iron MS: Mild Steel SS: Stainless Steel

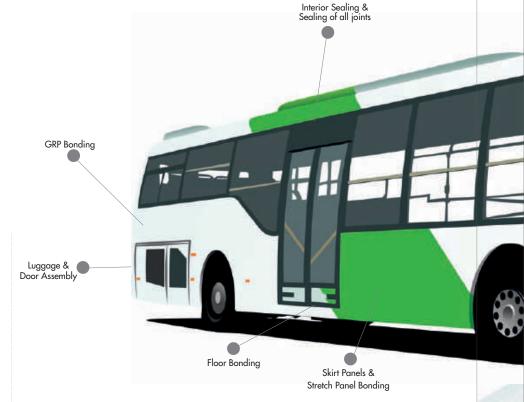
Disclaimer: The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments.

^{*}Recommend to use up to 15 Kg. weight of glass. For glass weight more than 15 Kg. Soudaflex 280 along with primer.

^{*}Recommend to use of primer depend upon the type of substrates. For more information please contact our technical department.

Bus & coach application

Adhesives and sealants for direct glazing and panel bonding



Panel bonding

Recommended product:

Soudaflex 621, Soudaseal 665*



Floor bonding

Recommended product:

Soudaflex 621, Soudaseal 665*



Seam sealing

Recommended product:

Soudaflex 621, Soudaseal 665*



Structural bonding

Recommended product:

Soudaflex 621, Soudaseal 665*



FRP bonding

Recommended product:

Soudaflex 621, Soudaseal 665*



Roof sealing

Recommended product:

Soudaflex 621, Soudaseal 665*



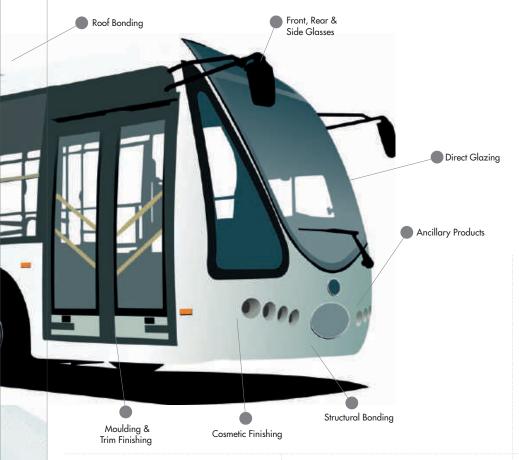
Luggage & door assembly

Recommended product:

Soudaflex 621, Soudaseal 665*



Bus & coach solutions



Wheel arch

Recommended product:

Soudaflex 621, Soudaseal 665* & 660



Cosmetic finishing

Recommended product:

Soudaflex 621, Soudaseal 660



Stretch panel

Recommended product:

Soudaflex 621, Soudaseal 660



Bonnet

Recommended product:

Soudaflex 621, Soudaseal 665* & 660



Trunk lid

Recommended product:

Soudaflex 621, Soudaseal 665* & 660



Skirt panel

Recommended product:

Soudaflex 621, Soudaseal 665* & 660



Fuel tank lid

Recommended product:

Soudaflex 621, Soudaseal 665* & 660



Bus & coach solutions

Rain channel

Recommended product:

Soudaflex621, Soudaseal 660



Wind screen

Recommended product:

Soudaflex 621, Soudaflex 280



Cab glass sealing

Recommended product:

Soudaflex 621, Soudaseal 665



Interiors

Recommended product:

Soudaflex 621, Soudaseal 665



Rear screen

Recommended product:

Soudaflex 621, Soudaflex 280



Moulding & trim finishing

Recommended product:

Soudaflex621, Soudaseal 665



Window outer sealing

Recommended product:

Soudaflex 621, Soudaseal 665



Bus AC & roof sealing

Recommended product:

Soudaflex, Soudaseal 250 XF



HVAC

Recommended product:

Soudaflex 621, Soudaseal 665, Silirub IS



Side glass

Recommended product:

Soudaflex 621 & 280, Soudaseal 665



Fire foam

Recommended product:

Soudafoam FR



Note:

- Soudaflex 621 is to be used along with Soudal Universal Primer.
- Soudaseal 665 is hybrid sealant and to be used without Soudal Universal Primer.

Product range

Complete sealing & bonding solutions for bus & coach

Soudaflex 280

Soudaflex 280 has been specially developed for Indian subtropical conditions after a decade of research, practical application understanding of Indian climate, it is most suitable in high temperatures and extreme humid conditions.

- Especially designed for direct glazing of windshield and front, side and rear glasses in automotive industry.
- Suitable for cold weather application.
- Suitable for elastic structural bonding.

Soudaflex 621

Soudaflex 621 has been specially developed for Indian subtropical conditions, it is most suitable in high temperature & extreme humid conditions.

- Especially developed for automotive and bus industry, bodywork, container applications.
- Suitable for making permanent elastic seals of high adhesive strength.
- High mechanical/dynamic stress resistance shock/impact resistant.

Soudaseal 265

Soudaseal 265 is a Primer-less elastic adhesive based on Silyl-Terminated Polymer specifically made for the windshield replacement after-market of inorganic and organic glass.

- Direct glazing and general structural elastic bonding adhesive.
- Quick bonding of windscreen, side and rear windows on vehicle bodies.
- Suitable for structural elastic bonding.
- Excellent weathering resistanceextremely good colour stability and UV resistance Free from.

Soudaseal 660

Soudaseal 660 is a high quality single component adhesive-sealant with high viscosity and very high adhesive strength. It is based on MS-Polymer®, chemically neutral and fully elastic.

- Structural elastic bonding between metal surfaces, coated surfaces and many plastics (not PE, PP, Teflon).
- Structural bonding in vibrating constructions.
- Structural bonding in vibrating constructions.

Soudal Universal Primer 175

Soudal Universal Primer 175 is a black primer which offers quick and lasting adhesion to our one component polyurethane sealants.

Soudal Universal Primer 175 is a onestep primer (on clean substrates) with a long open time: 3 days. It provides protection against UV rays if necessary.

Soudaseal 665

Soudaseal 665 is a primerless elastic adhesive based on Silyl-Terminated Polymer specifically studied for the windshield replacement after-market of inorganic and organic glass. Formulated with a high viscosity which confer to the product an excellent high initial tack. It combines very high holding power to excellent mechanical cohesion properties.

- Suitable for direct glazing and general structural elastic bonding.
- Quick bonding of windscreen, side and rear windows on vehicle bodies.
- Excellent weathering resistanceextremely good colour stability and UV resistance Free from.

Soudal Universal Cleaner 165

Soudal Universal Cleaner 165 is an adhesion enhancer necessary in the preparation of the glass where Soudal Universal Primer 175 will be used.



Train & coach solutions

Benefits

Flexible engineering adhesive and sealant systems



Direct glazing

Soudal has been providing products rail, OEM and sub supplier assembly lines with adhesive/sealant solutions for direct glazing & sealing.

Exterior component bonding & sealing

Rail vehicle manufacturers face complex and varied challenges in the design and assembly of the roof and mask systems for modern rail vehicles. High speeds, harsh environments and aerodynamic structural stresses within the vehicle have to be accommodated when selecting the correct adhesive solution.

Interior component bonding

Modern rail vehicle interiors need high durability and service life expectancy in order to meet the day-to-day requirements of transporting large numbers of people in comfort and safety. Rail vehicle operators demand high performance and reliability from their rolling stock to reduce down time and remain competitive.

Interior sealing and fire resistant applications

The finish and integrity of a rail vehicle is crucial to its long-term durability. A robust, watertight seal protects sensitive components such as wiring looms, vital electronic equipment and other systems situated beneath the floor and behind interior panels.

Floor bonding

Modern rail vehicles require the use of a number of high performance flooring materials during manufacturing to ensure travelling comfort, lower vibration and better sound damping in service. Soudal has formulated a range of elastic solutions for floor bonding that enable these and other benefits to be delivered to the customer.

Product range

- Soudaflex 621
- Soudaseal 660
- Soudaseal 665



Automotive after market solutions

Automotive solutions

Complete sealing & bonding solutions for automotive after market

Soudal has gained more than 25 years of experience in supplying the automotive aftermarket industry with adhesive and sealing systems. Based on this knowledge.

Soudal has developed product systems for the use in the automotive repair and replacement industry.

Today, we are a leading player in automotive aftermarket applications with sealing, bonding, dampening and protecting thanks to continuous innovation and listening to customer needs and requirements all over the world.

- Glass replacement specialists.
- Trust in Soudal products which are formulated to meet and/or exceed OEM requirements.
- Authorized dealer repair shops.
- Body and paint workshops.
- Maintenance and overhaul repair shops.





Product range

- Soudaseal 265
- Soudaflex 280
- Soudal Universal Cleaner 165
- Soudal Universal Primer 175

Soudaflex kit





Reliable fire retarding solutions



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
- 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.

SILIRUBHT-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 an fire retardant. intumescent plasto-elastic blanket based on an acrylic dispersion. The product has a with self-adhering

- Resist the passage of fire & smoke
- Intumescent in contact with fire
- Stays elastic & can be painted over
- Color fast & waterproof after curing
- Very good adhesion on many porous surfaces



Application area

Complete industrial solutions

Clean room & cold room

Recommended product: Silirub IS (FDA approved)



Telecom shelter

Recommended product:

Silirub PS





Lights & lamp

Recommended product:

Silirub PS, Silirub IS



Roofing joints (PEB)

Recommended product:

Silirub PS, Soudaseal 250XF & 660



Bus & side screen

Recommended product:

Powersil



Sealing turbo bent

Recommended product:

Soudaseal 250XF



Induction cooker

Recommended product:

Silirub IC



Industry

Recommended product:

General Purpoase Plus, Silirub IS



Application area

Complete industrial solutions

AC ducting & sealing

Recommended product:

Soudafoam 1K, Soudafoam PRO, FR



Signage

Recommended product:

Super Bond, Fix ALL HT



Elevator

Recommended product:

Soudaflex 621, Soudaseal 665, Fix ALL HT



Fire doors

Recommended product:

Soudafoam FR, Fire Silicone B1 FR



Visi cooler & coolers

Recommended product:

Silirub PS, Silirub IS



Generator & transformer

Recommended product:

Soudaflex 621, Soudaseal 665



Porta cabin

Recommended product:

Silirub PS



De humidifier

Recommended product:

Silirub PS, Silirub IS



Railway coaches

Recommended product:

Soudaflex 621, Soudaseal 665



Refrigeration

Recommended product:

Silirub PS, Soudafoam 1K



Commercial equipment

Recommended product:

Silirub PS, Silirub IS



PU foam application

Recommended product:

Soduafoam 1K, Soudafoam PRO



Silirub 2 PV silicone sealant for solar industry

High-quality neutral cure, highly elastic one-component joint sealant based on silicones. Ideal for expansion, perimeter, connection & movement joints between various building materials.

Resistant against UV-radiation, rain, frost, wind, ozone and extreme temperatures.

Silirub 2 PV:

Silirub 2 PV is a high-quality neutral cure, highly elastic one-component joint sealant based on silicones. It has been developed for weather sealing of expansion joints in the façade industry.

Benefits:

- · Weatherseal in frame bonding and junction box bonding.
- · Ideal for expansion, perimeter, connection and other movement joints between various building materials.
- · Compatible with double glazed
- frost, wind, ozone and extreme temperatures.

- Excellent adhesion properties on glass, laminated glass, coated aluminium, galvanised steel, aluminium composite panels (ACP), stones, concrete and masonry.
- Permanent colors, UV-resistant.
- · Low modulus according to ISO standards.
- Stays elastic after curing.











Product range

Complete sealing & bonding solutions for Industry

Silirub IS

Silirub IS is a high performance neutral cure silicone sealant with outstanding adhesive/sealing properties for most of the industrial critical applications.

- Excellent UV resistance
- Sealing of solar panels & junction boxes

Powersil

Powersil is a high quality elastic onecomponent acetoxy silicone sealant.

- Excellent UV resistance
- Suitable for both interior and exterior applications

Silirub PS

Silirub PS is a high performance neutral cure silicone. Telecom shelters, uPVC & aluminum door & window frames, ACP, glass, brick, concrete, wood.

- UV & weather resistance
- Excellent adhesion (uPVC, wood, aluminium, metal, concrete)

General Purpose Plus

General Purpose Plus is a high quality elastic one-component acetoxy silicone sealant.

- Excellent UV resistance
- Suitable for both interior and exterior applications

Fire Silicones B1 FR

Fire silicone B1 FR is a high quality, neutral, elastic, one-component sealant.

- Fire retardant silicone
- Very good elastic properties in expansion joints

Soudafoam PRO

Soudafoam PRO is a one-component, self-expanding, ready to use polyurethanefoam.

- Excellent adhesion on most substrates such as concrete, wood, PVC, Aluminum, (except PE, PP & Teflon)
- High thermal & acoustical insulation

Soudafoam 1K

Soudafoam 1K is a one-component, self-expanding, ready to use polyurethane foam with CFC-free propellants, which are completely harmless to the ozone layer.

- Excellent adhesion on most substrates (except Teflon, PE & PP)
- High thermal & acoustical insulation

Soudafoam FR

Soudafoam FR is a single-component, self-expanding, ready to use polyurethane foam with propellants which are completely harmless to the ozone layer.

- Excellent heat & sound insulation properties
- Easy application in door frames & connection joints

Super Bond

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

- High bond strength & good intial grab
- Replaces nails & screws

Fix ALL High Tack

Fix ALL HT is a high quality adhesive & sealant with high strength and initial tackbased on MS-Polymer®.

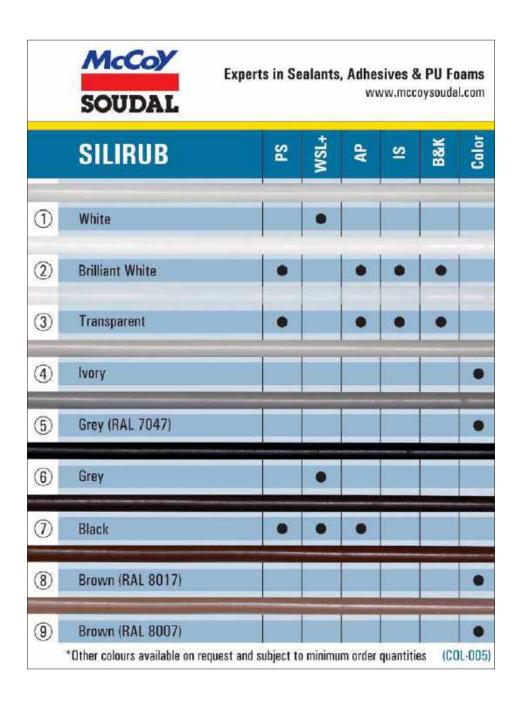
- Fast curing, quick build-up of end strength, high shear strength
- Paintable with all water based paints

Soudaseal 250XF

Soudaseal 250XF is high quality, neutral, one-component adhesive /sealant with a high initial tack based on MS-Polymer® technology.

- High green strength, quick build-up of end strength, high sheer strength after full cure
- Flexible elastic rubber movement accomodation up to 20%





Wide range of products

Experts in sealants, adhesives & foams



Product available in more than 120 countries

For more information kindly log on www.mccoysoudal.com | www.soudal.com

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