## ORAM PLUG®

# FOAMS & SEALANTS



## Trust & Innovation

www.rawlplug.co.uk



## Polyurethane Gun Foam

Self-expanding, single component polyurethame foam adhering to all common building materials

#### Product information



#### **Applications**

- Ideal for mounting, sealing & sound proofing
- Installing doors & windows
- Thermal insulation in roof cavities
- Gap filling around plumbing & heating pipework
- Filling any awkward gap or cavity
- Installation of pipes and pipes in air-conditioning systems and ventilation
- Filling gaps in thermal insulation at insulating buildings
- Filling of frame structures

#### Features and benefits

- High thermal and acoustic insulation
- Internal and external use
- Fast curing, workable in 45 minutes
- Excellent adhesion to most construction materials
- High yield up to 45 litres from 750ml can
- All season, works at -10 to +30
- Resistant to mould and fungi

#### Base materials

84/5000

- Concrete
- Wall substrates
- Wood
- Steel plate
- PVC profiles
- Window profile

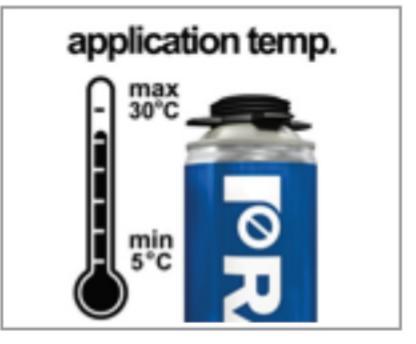


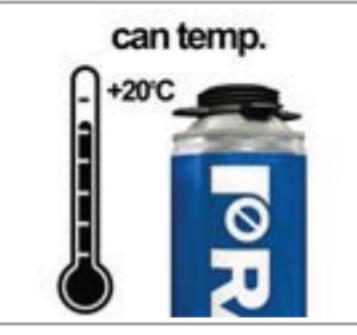


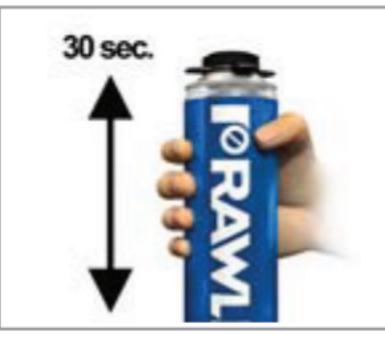
Versions



#### Installation guide













- 1. Wear protective gloves. Ensure surfaces are free from dust, dirt or debris.
- 2. Before using, make sure that the can temperature is above zero (optimum +20°C). Application temperature from +5°C up to +30°C.
- 3. Shake can vigorously for 30 seconds to mix properly components.
- 4. Screw gun onto the can. Hold can upside-down during application.
- 5. Moisten surfaces with water prior to application.
- 6. Fill gaps from down to up, zigzag motion, alternating from one wall to the other. Fill gaps to approximately 60 % volume. Max. wide of the gap 3-4 cm. Wider gaps should be applied after hardening of the previous layer. Each layer should be moistened with water using a spray.
- 7. Once fully hardened, foam must be protected from UV exposure by coating with plaster, paint, acrylic or silicone.
- 8. In the event of a stoppage exceeding five minutes duration, wipe the nozzle with cleaner for foam applicator.
- 9. After removing the applicator gun from the can, wipe down the nozzle and gun (internal and external surfaces) using a cleaner.

#### Technical data

Parameter		Value	Methods	
Application temperature	[°C]	-10 ÷ +30		
Can temperature	[°C]	+20		
Efficiency	[dm³]	max. 45		
Colour	-	Light yellow		
Post-expansion	[%]	120		
Skin formation time	[min]	4÷10	20°C, RH 90%	
Pretreatment time	[min]	45	20°C, RH 90%	
Complete hardening time	[h]	24		
Fire resistance class	-	B3	DIN 4102	
Density(kg/dm³)	[%]	22 ± 10	PN-EN ISO 845:2000	
Dimensional stability	[%]	≤5	40°C, RH 95%, 24 hrs	
Water absorption after 24h	[kg/m³]	≤2	PN-EN 1609:1999	
Tensile strength	[kPa]	≥ 100	PN-EN 1607:1999	
Compressive strength	[kPa]	≥ 50	PN-EN 826:1998	
Thermal resistance (upon hardening)	[°C]	-50 ÷ +90		
Thermal conductivity	[W/mK]	0,038		
Preparations solublity	-	Acetone, before hardening	Cleaner RPC-0500	
Soundproofing coefficient	[dB]	61	EN 12354-3	
Volume	[ml]	750		
R-RPP				
VOC Content	[g/l]	100	calculated	
Shelf life	[month]	15		
		upright position in an originally close	ed container	
		the storage temperature: from +5°C	to +35°C (room temperature is recommended)	
Storage conditions	-	dry, cool and well-ventilated place away from direct sunlight and other sources of heat and ignition		
		storing the product in conditions otleven by 3 months	her than recommended may shorten the life time	

#### Commercial product data

Product Code Colour			Quantity [pcs]			Weight [kg]			
Product Code Colodi	Cotour	Вох	Outer	Pallet	Вох	Outer	Pallet	Bar Codes	
R-RPP-45-K	Light yellow	12	12	672	10.9	10.9	639.5	5906675430942	



#### B1 Fire Resistant Gun Foam

Single component polyurethane fire-resistant foam with EI 120 classification

#### Product information



#### **Applications**

- Fire retardant installation of window and doorframes
- Fire and smoke retardant sealing of connections between partition walls, ceilings and floors
- Filling of cavities
- All applications where fire retardant characteristics are required such as:
- sealing of all openings in roof constructions
- sealing of cable- and pipe penetrations
- creation of a sound-proof screen
- bonding of insulation materials
- improving thermal insulation in cold store area's

#### Features and benefits

- Fire resistant to El120/F120 when used according to approval
- Efficient seal against smoke and gas
- Excellent thermal and acoustical insulation properties
- Fast curing, workable in 40 minutes
- Can be painted or plastered when cured
- Excellent adhesion to most construction materials
- High yield up to 45 litres from 750ml can
- Resistant to mould and fungi

#### Base materials

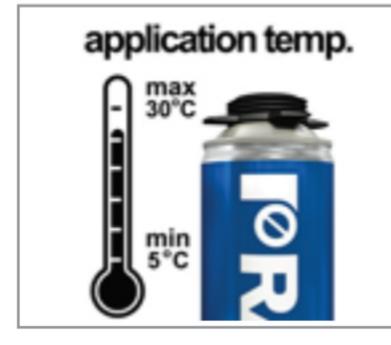
Suitable for use with:

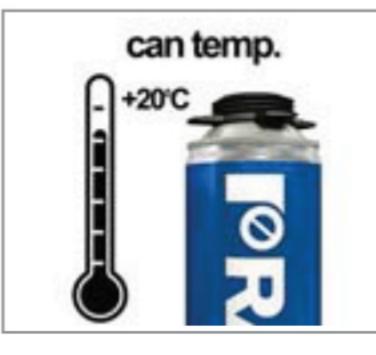
- Aerated Concrete Block
- Chipboard
- Concrete

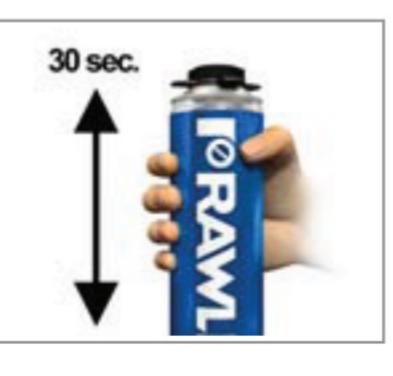




#### Installation guide













- 1. Wear protective gloves. Ensure surfaces are free from dust, dirt or debris.
- 2. Before using, make sure that the can temperature is above zero (optimum +20°C). Application temperature from +5°C up to +30°C.
- 3. Shake can vigorously for 30 seconds to mix properly components.
- 4. Screw gun onto the can. Hold can upside-down during application.
- 5. Moisten surfaces with water prior to application.
- 6. Fill gaps from down to up, zigzag motion, alternating from one wall to the other. Fill gaps to approximately 60 % volume. Max. wide of the gap 3-4 cm. Wider gaps should be applied after hardening of the previous layer. Each layer should be moistened with water using a spray.
- 7. Once fully hardened, foam must be protected from UV exposure by coating with plaster, paint, acrylic or silicone.
- 8. In the event of a stoppage exceeding five minutes duration, wipe the nozzle with cleaner for foam applicator.
- After removing the applicator gun from the can, wipe down the nozzle and gun (internal and external surfaces)
  using a cleaner.

#### Technical data

Parameter		Value	Methods		
Application temperature	[°C]	+5 ÷ +30			
Can temperature	[°C]	+20			
Efficiency	[dm³]	max. 45			
Colour	-	red			
Skin formation time	[min]	12-16	20°C, RH 90%		
Pretreatment time	[min]	30-40	20°C, RH 90%		
Complete hardening time	[h]	24			
Fire resistance class	-	B-s1, dO	PN-EN 13501-1+A1:2010		
Density(kg/dm³)	[%]	25 ± 10	PN-EN ISO 845:2000		
Dimensional stability	[%]	+/- 2	40°C, RH 95%, 24 hrs		
Water absorption after 24h	[kg/m³]	0,5	PN-EN 1609:1999		
Tensile strength	[kPa]	≥ 50	PN-EN 1607:1999		
Compressive strength	[kPa]	≥ 100	PN-EN 826:1998		
Thermal resistance (upon hardening)	[°C]	-50 ÷ +90			
Thermal conductivity	[W/mK]	0.034			
Preparations solublity	-	Acetone, before hardening	Cleaner RPC-0500		
Soundproofing coefficient	[dB]	61	EN 12354-3		
Volume	[ml]	750			
VOC Content	[g/l]	169	calculated		
Fire resistance classification	-	EI 120	EN 1366-4		
RPP-B1					
Classification	-	EI 120			
Shelf life	[month]	12			
		upright position in an originally close	ed container		
		the storage temperature: from +5°C to +35°C (room temperature is recommended)			
Storage conditions	-	dry, cool and well-ventilated place away from direct sunlight and other sources of heat and ignition			
		storing the product in conditions other than recommended may shorten the life time even by 3 months			

#### Commercial product data

Product Code	Colour	Quantity [pcs]			Weight [kg]	Bar Codes		
Product Code Colodi	Вох	Outer	Pallet	Вох	Outer	Pallet	Dai Codes	
R-RPP-B1	Light red	12	12	840	10.9	10.9	791.9	5906675285047

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## Polyurethane Thin Bed Mortar Gun version (cont.)

#### Aproximate consumption cd.

Detailed information								
Material	Type of application / Number of beads	Horizontal application [m²]	Vertical and horizontal application [m²]					
Aerated concrete block	block up to 12 cm width/1	10	8					
Aerated Concrete block	block over 12 cm width/2	4,8	3					
Ceramic hollow block	block up to 12 cm width/1	10 - 12	7 - 8					
Ceramic notiow block	block over 12 cm width/2	5 - 6	3 - 4					
Silicato blocks	block up to 12 cm width/1	10	6 - 7					
Silicate blocks	block over 12 cm width/2	5,2	3,2					

## RPP-GUN-NC Professional gun for expanding foams

Professional grade metal polyurethane applicator gun for use with gun foams.

#### Product information



#### Applications

For the application of PU foams and cleaners

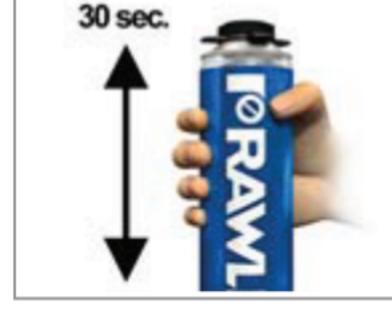
#### Features and benefits

- Solid construction
- Easy application
- Simple maintenance
- Adjusting the flow out of the foam
- Durability

#### Product commercial data

Product Code	Вох	Bar Codes
RPP-GUN-NC	1	5906675379203

#### Installation guide













- 1. Wear protective gloves. Shake can vigorously (30 sec) to mix the ingredientsand. Attach applicator gun and hold can upside-down during application.
- 2. After emptying can disconnect the gun from the can with PU foam and immediately screw the next can in order to continue working.
- 3. When work is finished, there is a possibility to leaving the can connected with the gun. To avoid accidental foam application block the handweel.
- 4. Disconnect the gun from the can with PU foam. Spray basket of gun using Rawlplug PU Foam Cleaner.
- 5. To avoid foam curing inside the gun connect the can with the gun screwing it into the basket of the gun.
- 6. To clean the gun connect the can with the gun screwing it into the basket of the gun. Press the trigger several times until the gun is completely cleaned.
- 7. Once the foam cures in the gun, solvent will not dissolve it. Never use water to clean the gun. Cured foam may damage the gun. It can be removed mechanically. When foam cures in gun unscrew the regulation handwheel and remove the needle.
- 8. Clean the needle with non-abrasive product. Grease the needle before placing it in the gun.
- 9. Thoroughly dry all cleaned surfaces.

## R-RPC-0500 Agent for removing uncured polyurethane foams

High power cleaner for removing uncured polyurethane foams or adhesives and cleaning equipment

#### Product information



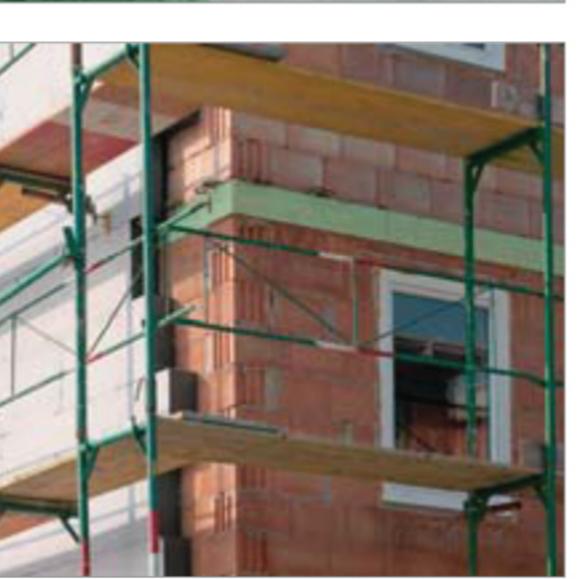
## **Applications**

- Cleaning of the gun after use with PU Expanding Foam
- Cleaning of the valves of the PU aerosol gun
- Removal of uncured foam

#### Features and benefits

- Dissolves uncured polyurethane completely.
- Perfectly degrease work surfaces (steel, glass, wood) beofre application of polyurethane or silicone
- Safe for the surface of PVC and most plastics





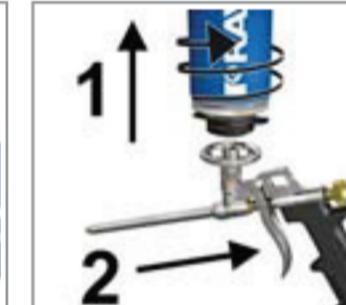
Product Code	Colour	Basis weight	Range of temperatures for application	Volume
Product Code	-	[g]	[°C]	[mt]
RPC-0500	colourless	0.78	5-35	500

#### Commercial product data

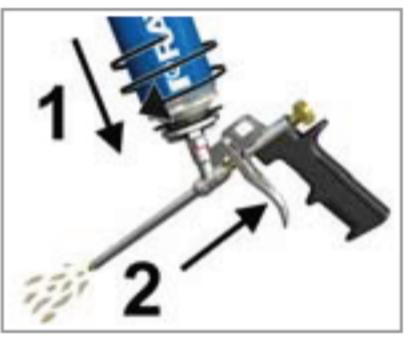
Product Code	Basis weight	Volume [ml]		Quantity [pcs]			Weight [kg]		Bar Codes
Product Code	[g]	[g] Volume [mt]	Вох	Outer	Pallet	Вох	Outer	Pallet	Dai Codes
R- RPC-0500	0.78	500	12	12	672	5.8	5.8	353.5	5906675388199











- Surface Cleaning:
- Apply to the valve of the product enclosed spray tip
- Spray the fresh dirt
- When cleaning valve on the can of PU foam thoroughly spray the valve and the gun's adapter
- Remove dirt with a dry cloth
- 2. Gun Cleaning:
- Disconnect the gun from the can with PU foam. Remaing foam inside the gun remove by pressing the trigger of the gun
- Apply to the valve of the product enclosed spray tip
- Spray basket of gun using PU Foam Cleaner
- Remove the spray tip from the valve and connect the can with the gun screwing it into the basket of the gun
- Press the trigger several times until the gun is completely cleaned
- Thoroughly dry all cleaned surfaces

## ORAYLPLUG®

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#### R-SL-NEU Neutral Silicone

Neutral silicone – one-component elastic sealant with neutral curing system.

#### Product information



#### **Applications**

- Filling elastic expansion joints
- Filling joints behind window and door frames
- Sealing of prefabricated elements in construction
- Sealing of metal coolers, containers and tanks
- Connections between galvanized steel, brass and other metals

#### Features and benefits

- Highly and permanently elastic sealing properties
- Very good adhesion to most building materials.
- Durable seal (completely resistant to weathering and UV radiation)

#### Base materials

#### Approved for use in:

- Glass
- Metal Sheet & Profiles
- Stainless Steel
- Glaze
- Masonry
- Concrete
- Aerated Concrete Block







- 1. The surface, that silicone will be apllied on, should be clean, free of dust, grease, rust, remains of old seal and other substances that might weaken the cohesion.
- 2. Prior to application of silicone protect edges with masking tape
- 3. Cut the tip of the cartridge, leaving part of the thread. Screw the applicator on to the thread, then cut at the required angle to give an aperture width suited to the joint.
- 4. Use manual or pneumatic gun applicator.
- 5. Applied silicone may be smoothed with a spatula or similar tool. Moisten the spatula first in special wetting agent or detergent solution.
- 6. The silicone hardens by reaction with moisture from the air, so ensure well-ventilated conditions.
- 7. After completing the application, wipe tools with a paper towel and clean with solvent.



Parameter		Value	Methods
Application temperature	[°C]	+5 ÷ +40	
Coverage	-	18 linear meters of 4x4 mm joint per one 300 ml cartridge	
Thermal resistance (upon hardening)	[°C]	-40 ÷ +180	
Pretreatment time	[min]	10	
Curing time	[mm/24h]	2	RH 55%
Hardening system	-	one-component-crosslinking with air hu- midity	
Hardening type	-	neutral-oxime	
Density	[kg/dm³]	1.01	
Shore A hardness	-	20	SHORE A Method, after 14 days
Ultimate elongation	[%]	200	ISO 8339, +23°C
Shrinkage	[%]	6	
Allowable deformation	[%]	25	
Packaging	-	300 ml cartridge	
R-SL-NEU-01			
Colour	-	transparent	
R-SL-NEU-02			
Colour	-	white	
R-SL-NEU-03			
Colour	-	дгеу	

Parameter		Value	
Storage temperature [°C]		+5 ÷ +35	
Storage	[month]	18	
Storage	-	In originally closed containers, in cool and dry places.	

Product Code Colour		Quantity [pcs]			Weight [kg]			Bar Codes
Product Code Colodi	Cotoui	Вох	Outer	Pallet	Вох	Outer	Pallet	Bai Codes
R-SL-NEU-01	transparent	15	15	1260	5.6	5.6	497.6	5906675251233
R-SL-NEU-02	white	15	15	1260	5.5	5.5	493.9	5906675251240
R-SL-NEU-03	дгеу	15	15	1260	5.7	5.7	506.7	5906675251257



## R-SL-UNI Universal Silicone

Universal silicone - One-component, elastic sealant with acetate curing system.

#### Product information



#### **Applications**

- For standard glazing applications, as well as hotboxes for gardening.
- Sealing partition walls and window & door frames.
- Do not use for fish tanks, mirrors, unprotected metals, natural stone or concrete.

#### Features and benefits

- Highly and permanently elastic sealing properties, with excellent resistance to water, grease, acids and alkalis.
- Very good adhesion to materials and substrates used commonly in construction: glass, tiles, ceramics and protected metals
- Durable seal (completely resistant to weathering and UV radiation)

#### Base materials

#### Approved for use in:

- Glass
- Protected metals (aluminium, brass, copper, steel, zinc-plated metal sheet)
- Terracotta
- Ceramics
- Glaze
- Protected wood







- 1. The surface, that silicone will be apllied on, should be clean, free of dust, grease, rust, remains of old seal and other substances that might weaken the cohesion.
- 2. Prior to application of silicone protect edges with masking tape
- 3. Cut the tip of the cartridge, leaving part of the thread. Screw the applicator on to the thread, then cut at the required angle to give an aperture width suited to the joint.
- 4. Use manual or pneumatic gun applicator.
- 5. Applied silicone may be smoothed with a spatula or similar tool. Moisten the spatula first in special wetting agent or detergent solution.
- 6. The silicone hardens by reaction with moisture from the air, so ensure well-ventilated conditions.
- 7. After completing the application, wipe tools with a paper towel and clean with solvent.



Parameter		Value	Methods
Application temperature	[°C]	+5 ÷ +40	
Соvегаде	-	18 linear meters of 4x4 mm joint per one 300 ml cartridge	
Thermal resistance (upon hardening)	[°C]	-40 ÷ +180	
Pretreatment time	[min]	25	
Curing time	[mm/24h]	2	RH 55%
Hardening system	-	one-component-crosslinking with air hu- midity	
Hardening type	-	acidic-acetate	
Density	[g/cm³]	0.98-1.05	
Shore A hardness	-	18	SHORE A Method, after 14 days
Ultimate elongation	[%]	150	ISO 8339, +23°C
Shrinkage	[%]	17	
Allowable deformation	[%]	15	
Packaging	-	300 ml cartridge	
R-SL-UNI-01			
Colour	-	transparent	
R-SL-UNI-02			
Colour	-	white	
R-SL-UNI-03			
Colour	-	дгеу	
R-SL-UNI-04			
Colour	-	brown	

Parameter		Value			
Storage temperature [°C]		+5 ÷ +35			
Storage	[month]	18			
	-	In originally closed containers, in cool and dry places.			

Product Code Colour	Quantity [pcs]			Weight [kg]			Don Codes	
	Вох	Outer	Pallet	Вох	Outer	Pallet	Bar Codes	
R-SL-UNI-01	transparent	15	15	1260	5.4	5.4	479.1	5906675251042
R-SL-UNI-02	white	15	15	1260	5.4	5.4	486.4	5906675251059
R-SL-UNI-03	дгеу	15	15	1260	5.4	5.4	483.3	5906675251066
R-SL-UNI-04	brown	15	15	1260	5.3	5.3	478.6	5906675251073



## R-SL-BUD Building Silicone

Construction silicone - One-component, elastic sealant with neutral curing system.

#### Product information



#### Applications

- Filling elastic expansion joints
- Filling joints behind window and door frames
- Sealing of prefabricated elements in construction
- Sealing of metal coolers, containers and tanks
- Connections between galvanized steel, brass and other metals

#### Features and benefits

- Highly and permanently elastic sealing properties
- Very good adhesion to most building materials.
- Durable seal (completely resistant to weathering and UV radiation)

#### Base materials

#### Approved for use in:

- Glass
- Metal Sheet & Profiles
- Stainless Steel
- Glaze
- Masonry
- Concrete
- Aerated Concrete Block







- 1. The surface, that silicone will be apllied on, should be clean, free of dust, grease, rust, remains of old seal and other substances that might weaken the cohesion.
- 2. Prior to application of silicone protect edges with masking tape
- 3. Cut the tip of the cartridge, leaving part of the thread. Screw the applicator on to the thread, then cut at the required angle to give an aperture width suited to the joint.
- 4. Use manual or pneumatic gun applicator.
- 5. Applied silicone may be smoothed with a spatula or similar tool. Moisten the spatula first in special wetting agent or detergent solution.
- 6. The silicone hardens by reaction with moisture from the air, so ensure well-ventilated conditions.
- 7. After completing the application, wipe tools with a paper towel and clean with solvent.



Parameter		Value	Methods
Application temperature	-	+5 ÷ +40	
Соvегаде	-	18 linear meters of 4x4 mm joint per one 300 ml cartridge	
Thermal resistance (upon hardening)	-	-40 ÷ +180	
Pretreatment time	[min]	25	
Curing time	[mm/24h]	2	
Hardening system	-	one-component-crosslinking with air hu- midity	
Hardening type	-	neutral-oxime	
Density	[kg/dm³]	0.98-1.25	
Shore A hardness	-	20	SHORE A Method, after 14 days
Ultimate elongation	[%]	510	ISO 8339, +23°C
Shrinkage	[%]	15	
Allowable deformation	[%]	15	
Packaging	-	300 ml cartridge	
R-SL-BUD-01			
Colour	-	transparent	
R-SL-BUD-02			
Colour	-	white	
R-SL-BUD-03			
Colour	-	grey	
R-SL-BUD-04			
Colour	-	brown	
R-SL-BUD-07			
Colour	-	black	

Parameter		Value		
Storage temperature [°C]		+5 ÷ +35		
Charage	[month]	18		
Storage	-	In originally closed containers, in cool and dry places.		

Product Code Colour	Colour	Quantity [pcs]			Weight [kg]			Dan Cadas
	Вох	Outer	Pallet	Вох	Outer	Pallet	Bar Codes	
R-SL-BUD-01	transparent	15	15	1260	5.4	5.4	483.1	5906675251134
R-SL-BUD-02	white	15	15	1260	6.8	6.8	602.4	5906675251141
R-SL-BUD-03	дгеу	15	15	1260	5.9	5.9	526.7	5906675251158
R-SL-BUD-04	brown	15	15	1260	6.0	6.0	533.0	5906675251165
R-SL-BUD-07	black	15	15	1260	5.9	5.9	525.9	5906675251172



## R-SL-TK High Temperature Silicone

High-temperature silicone – One-component elastic sealant with acetate curing system.

#### Product information



#### Applications

- Sealing in high-temperature environments: furnaces, chimneys, heating installations, combustion & flue ducts, ventilation and air-conditioning systems.
- Fixing of elements in domestic fireplaces and industrial furnaces.

#### Features and benefits

- The seal possesses complete and long-term resistance to oils, petrol, grease, diesel & coolants.
- Resistant to changeable weather conditions, temperature extremes (up to 350°C) and UV radiation.
- Highly and permanently elastic sealing properties

#### Base materials

#### Approved for use in:

- Glass
- Protected metals (aluminium, brass, copper, steel, zinc-plated metal sheet)
- Ceramics
- Glaze
- Concrete
- Masonry
- Plastics
- Metal Sheet & Profiles







- 1. The surface, that silicone will be apllied on, should be clean, free of dust, grease, rust, remains of old seal and other substances that might weaken the cohesion.
- 2. Prior to application of silicone protect edges with masking tape
- 3. Cut the tip of the cartridge, leaving part of the thread. Screw the applicator on to the thread, then cut at the required angle to give an aperture width suited to the joint.
- 4. Use manual or pneumatic gun applicator.
- 5. Applied silicone may be smoothed with a spatula or similar tool. Moisten the spatula first in special wetting agent or detergent solution.
- 6. The silicone hardens by reaction with moisture from the air, so ensure well-ventilated conditions.
- 7. After completing the application, wipe tools with a paper towel and clean with solvent.



Parameter		Value	Methods
Application temperature	[°C]	+5 ÷ +40	
Соvегаде	-	18 linear meters of 4x4 mm joint per one 300 ml cartridge	
Thermal resistance (upon hardening)	[°C]	-40 ÷ +250	
Pretreatment time	[min]	10	
Curing time	[mm/24h]	2	
Hardening system	-	one-component-crosslinking with air hu- midity	
Hardening type	-	acidic-acetate	
Density	[kg/dm³]	1.28	
Shore A hardness	-	33	SHORE A Method, after 14 days
Ultimate elongation	[%]	180	ISO 8339, +23°C
Shrinkage	[%]	6	
Allowable deformation	[%]	25	
Packaging	-	300 ml cartridge	
R-SL-TK-05			
Colour	-	гed	
R-SL-TK-07			
Colour	-	black	

Parameter		Value
Storage temperature [°C]		+5 ÷ +35
Storage	[month]	18
	-	In originally closed containers, in cool and dry places.

Draduct Code Colour			Quantity [pcs]			Weight [kg]		
Product Code	Product Code Colour	Вох	Outer	Pallet	Вох	Outer	Pallet	Bar Codes
R-SL-TK-05	red	15	15	1260	6.7	6.7	588.2	5906675251295
R-SL-TK-07	black	15	15	1260	6.6	6.6	582.0	5906675251288