



# Fire retardant & heat resistant

SEALING - FILLING - REPAIRING

# SEALING

Fire retardant spaces are nearly as safe as their weakest link. Therefore it is necessary that in a fire secure environment with adapted wall-, ceiling- and floor covering also the joints are taken into account.

At DL Chemicals we take this responsibility seriously and develop high quality sealing products that are resistant against fire and tested according to the strictest standards.

## PARASILICO FR



- Neutral fire retardant silicone
- Sealing of all kind of joints with high elasticity
- Adheres without primer on almost all building materials
- Horizontal and vertical joints up to 50 mm
- The sealant maintains its integrity with temperatures rising to 1100°C during 4 hours

Tested according BS476 part 20:1987; Approved by Efectis.

**Packing and colour:** 25 cartridges of 310 ml per box, white and grey



## PARACRYL FR



- Fire retardant, water bades, non-toxic acrylic sealant
- Sealing of joints where fire safety is important
- Can be painted
- Can be used on all porous surfaces such as wood, brick, concrete...
- The sealant maintains its integrity with temperatures rising to 1100°C during 4 hours

Tested according BS476 part 20:1987; Approved by Efectis.

**Packing and colour:** 25 cartridges of 310 ml per box, white



## PARABOND FR



- Hardly inflammable sealant based on MS polymer
- Connection joints in the construction
- Indoor and outdoor use
- Good adhesion on metals, plastics, concrete...
- Can be painted
- Fire resistant

Tested according to DS/EN 1366-4:2006+A1:2010 by DBI.

**Packing and colour:** 12 bags of 600 ml per box, grey RAL 7004

12 cartridges of 290 ml per box, grey RAL 7004\*  
\*on demand and per full batch



TECHNICAL CHARACTERISTICS	PARASILICO FR	PARACRYL FR	PARABOND FR
Skin forming	3 h	65 min	90 min
Shore A	23	32	26
Elastic recovery	>90%	<50%	>60%
Deformation capability	25%	7,5%	20%
Modulus at 100% elongation	0,38 N/mm <sup>2</sup>	0,12 N/mm <sup>2</sup>	0,7 N/mm <sup>2</sup>
Elongation at break	250% (ISO 8339)	180% (ISO 8339)	300% (ISO 37)

# FILLING

Heat and fire can spread quickly through the air. Open spaces that are not filled with insulation can form dangerous bridges for the spreading of fire.

Cavities around door or window frames, pipes, joints >50 mm... can be filled perfectly with an expansive PU-foam and thus guarantee the integrity of your fire safe room.

## PARAFOAM FR (NBS)



- Fire retardant PU foam
- Filling, insulating and sealing of cracks, joints and gaps
- Cured foam can be cut, sawed and plastered
- Excellent adhesion on concrete, brickwork, stone, plastering, metals, wood and synthetics
- High volume
- Free of CFK and HCFK
- Fire resistance up to 4 hours
- NBS gun foam or with standard hand held adapter

Fill the joint up to 60% for hand held foam and 70% for NBS gun foam

Tested for use in fire resistant linear joint seals according to norm DIN 4102-1 class B1 Depending on the specific linear joint seal design, a fire resistance of up to 240 min. is achievable. TÜV Classification Report TEK 240/18



**Packing:** 12 foam cans of 750 ml per box

TECHNICAL CHARACTERISTICS	PARAFOAM FR NBS	PARAFOAM FR
Yield (750 ml) (TM 1003)	45 l	32 l
Tack free after (TM 1014)	6-10 min	8-12 min
Can be cut after (TM 1005)	< 30 min	< 45 min
Thermal conductivity (EN12667, TM1020)	0,03 W/mK	0,033 W/mK





# HEAT RESISTANT PRODUCTS

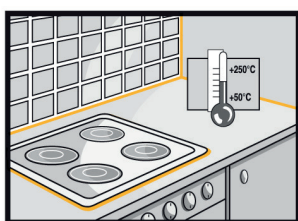
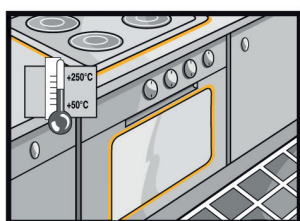
Heat resistant sealants possess different characteristics than their fire retardant colleagues. Fire retardant products convert their elasticity in a fireproof connection above 100°C. Heat resistant sealants remain elastic at very high temperatures and keep their original characteristics when cooled down again.

## PARASILICO HTR N/E



- Neutral (HTR N) and acetoxo (HTR E) silicone
- Appropriate for high temperatures: 250°C constant and 300°C short term
- Specially designed for joints which are in contact with high temperatures such as ovens, hot plates, motors...
- Very good adhesion on metals, various plastics, concrete, ceramics, faience, glass...

**Packing and colour:** 25 cartridges of 310 ml per box, black

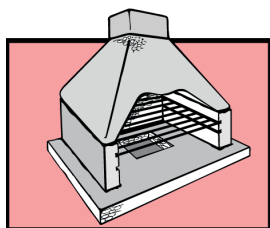
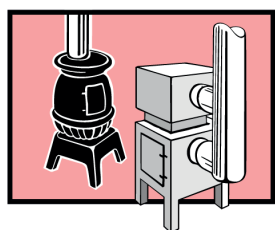


## PARAHEAT



- Sealant resistant to high temperatures: up to 1250°C after curing
- Specially designed for repairing and sealing joints, cracks and fissures in fireplaces, ovens and chimneys
- Appropriate for joints with low movement (+/- 3%)
- Good adhesion on metal, stone, concrete...
- Can be painted

**Packing and colour:** 25 cartridges of 310 ml per box, anthracite



Visit our website [www.dl-chem.com](http://www.dl-chem.com) for more information and technical data sheets of these and other products or contact your sales representative.