

Sealings

**PRODORAL[®]R 6-1 and PRODORAL[®]H for
internal domestic gas lines and heating systems**





Sealings

•• RELIABLE SEALING FOR GAS AND HEATING

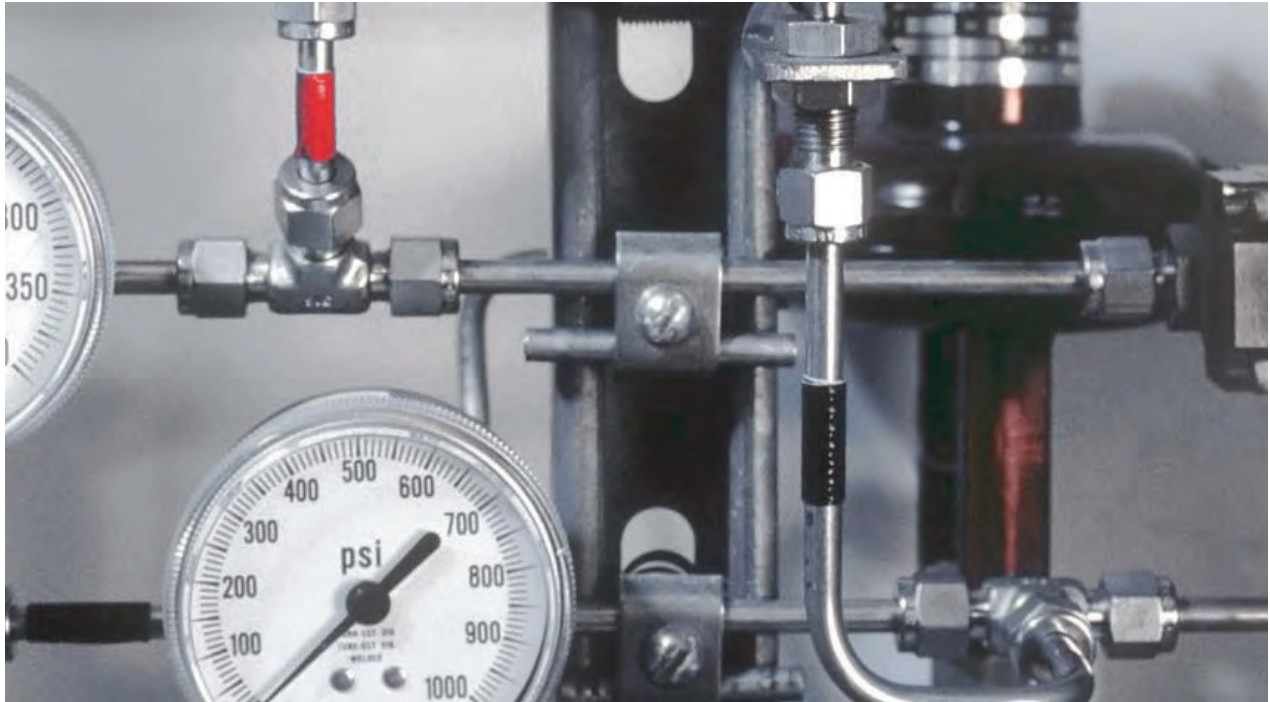
TIB Chemicals is Europe's leading manufacturer of sealing products for thread connections in interior gas pipes. We also manufacture sealings for heating systems and under floor heating.

Our trademarks PRODORAL®R6-1 and PRODORAL®H are of proven quality. PRODORAL®R-1 has been established for 25 years.

With PRODORAL®R6-1 thread connections in interior gas pipes can be sealed, and with PRODORAL®H heating systems such as underfloor heating.

The sealing is carried out fast, economically and environmentally friendly. In a simple procedure, PRODORAL®R6-1 and PRODORAL®H are pumped into the pipes and seal automatically: durably and reliably.

We deliver worldwide. Our customers receive not only the product but also the necessary equipment. Furthermore, we offer on-site training sessions.



❖❖ **PRODORAL®R6-1 – THE SAFE AND ECONOMICAL SEALANT FOR THREAD CONNECTIONS IN INTERIOR GAS PIPES**

PRODORAL®R6-1, a dispersion, is certified by the "Deutsche Vereinigung des Gas- und Wasserfaches e.V. (DVGW)" for thread connections in interior gas pipes, which can be sealed after construction or repair.

PRODORAL®R6-1 is used for leakage rates of maximum 5 l/h and at a maximum operating pressure of 100 mbar.



❖❖ PRODORAL®R6-1 – OFFERS MANY ADVANTAGES

SAFE

PRODORAL®R6-1 is resistant to vibrations and aging processes. Furthermore, it withstands any media that may occur in domestic gas lines.

ECONOMICAL

PRODORAL®R6-1 is easy to apply and therefore economical. Under pressure, it is pumped into the gas lines and seals the leakages. No costly wall breaks are required.

FAST TO APPLY

With PRODORAL®R6-1 the pipe is sealed within a few hours.

ECONOMICAL IN CONSUMPTION

The required quantity of the sealant depends on the pipe volume. Due to the high dispersion ability, only a small quantity is necessary for 100 % sealing efficiency. PRODORAL®R6-1 penetrates under pressure into the leaky threads and durably seals the leakage. After draining, the recovered material may be reused several times.

SUPPLIED IN PRACTICAL CONTAINERS

We supply PRODORAL®R6-1 in practical one-way plastic containers.

ENVIRONMENTALLY FRIENDLY

PRODORAL®R6-1 is a water-based plastic dispersion. It is solvent free; no dangerous vapours occur. It can be harmlessly disposed and is not inflammable.

APPROVED ACCORDING TO DIN-DVGW NG-5153 AR 0634

PRODORAL®R6-1 fulfils all requirements according to DIN EN 13090 in one-pass application.

COMPLETE SERVICE

We do not only supply the material but also the necessary equipment, such as diaphragm pumps and hoses. Our qualified technical advisors coach your specialists on-site in correct application methods. After successful participation attendees are certified according to DVGW worksheet G 624 "Technical rules for resealing of gas pipework".

❖❖ PRODORAL®R6-1 – EASE OF APPLICATION: SIMPLE AND FAST

PRODORAL®R6-1 seals leakages of gas lines from the main valve to the gas meter or to the gas outlets. The sealing procedure is easy and fast.

Under pressure, PRODORAL®R6-1 penetrates into the leaking thread connections. Sealing is carried out within a few hours.



1 | preparing

2 | filling

3 | bleeding

4 | evacuating

5 | drying

6 | soundness testing

1 | Screw the bleed valves onto every gas outlet. Put in the connecting valve to the lowest part of the main pipe. Blow out the dust from the pipe through all bleed valves, working from top to bottom.

2 | Fill the pipe with PRODORAL®R6-1 by using the diaphragm pump. The pump may be operated either by nitrogen gas or by pressurised air supplied from a compressor.

3 | After filling of the pipes, bleed the valves installed at the gas outlets. Afterwards, allow the filled pipe to remain under pressure for 30 min.

4 | The surplus material is removed from the pipe by blowing out with nitrogen or pressurised air. Afterwards, foam sponges (pigs) are inserted into the pipe at the gas outlets and pressed through, by nitrogen or pressurised air.

5 | The pipe is dried with the PRODORAL®R6-1 blower by blowing ambient air from the bottom to the top. The drying time depends on the size of the pipe.

6 | After equalisation of the temperatures according to DVGW-TRGI 2008, Pkt. 5.6.4.2, the test for soundness is carried out for 10 min at 150 mbar. The gas pipe can now be put into operation.

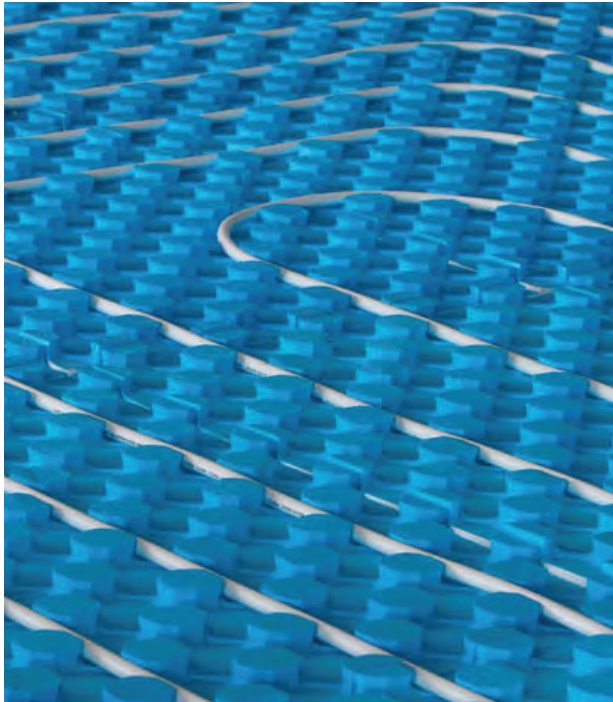




❖❖ PRODORAL®H – THE PERFECT SEALANT FOR HEATING SYSTEMS

The sealant PRODORAL®H reliably seals leakages in under floor heating systems, boilers and heating elements.

PRODORAL®H is suitable for usage in metal and plastic pipes.



❖❖ PRODORAL®H – CONVINCES

SAFE

Sealings carried out with PRODORAL®H are durably resistant to pressure as well as variations in temperature. PRODORAL®H remains in the heating installation and may eliminate future leakages.

ECONOMICAL

PRODORAL®H may be filled into the heating system using an ordinary hand pump for interior sealing of the leakage, without any need to break open the flooring.

EASY TO APPLY

PRODORAL®H is filled into the heating system with an ordinary hand pump, during the ongoing heating process, by connecting the pump to the filling valve of the heating system and filling in the sealant. Afterwards, all circulation pumps are bled and the heating system is allowed to operate for at least 12 hours with all radiator valves open. During circulation of the heating water, the sealant is spread within the system and penetrates into all the leaks. Sealing occurs within a few days.

ECONOMICAL IN CONSUMPTION

PRODORAL®H can be economically used and exactly dosed.

- for leakage rates up to 50 l/24 h, mixing ratio of approximately 1:200.
- for leakage rates between 50 l/24 h and 400 l/24 h, mixing ratio of approximately 1:100.

PRACTICAL CONTAINERS

We supply PRODORAL®H in commercial 5 l plastic cans.

HARMLESS

PRODORAL®H develops no dangerous vapours and is not inflammable.



❖❖ PRODORAL® – EFFECTIVE SEALING SYSTEMS WITHIN THE HOUSE AREA / QUESTIONS?

If you have any questions about specific sealing processes or our sealing products, please contact our sales team.

Our trained personnel will be happy to advise you on all matters related to effective sealing.

