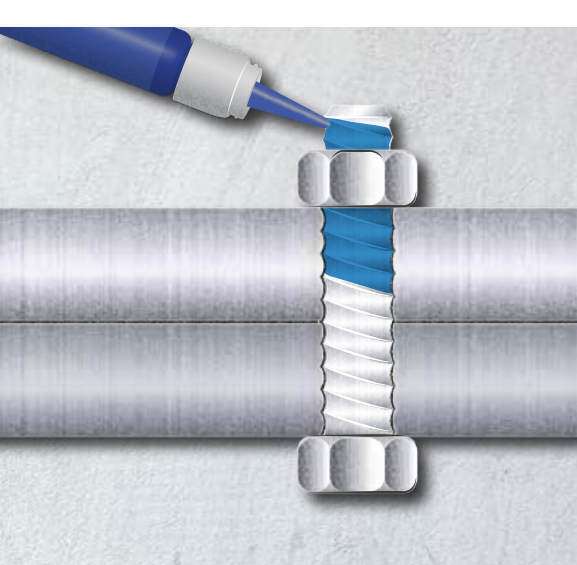


WEICONLOCK® Type Selection Chart



Thread locking

- Bolts and nuts
- Stud bolts



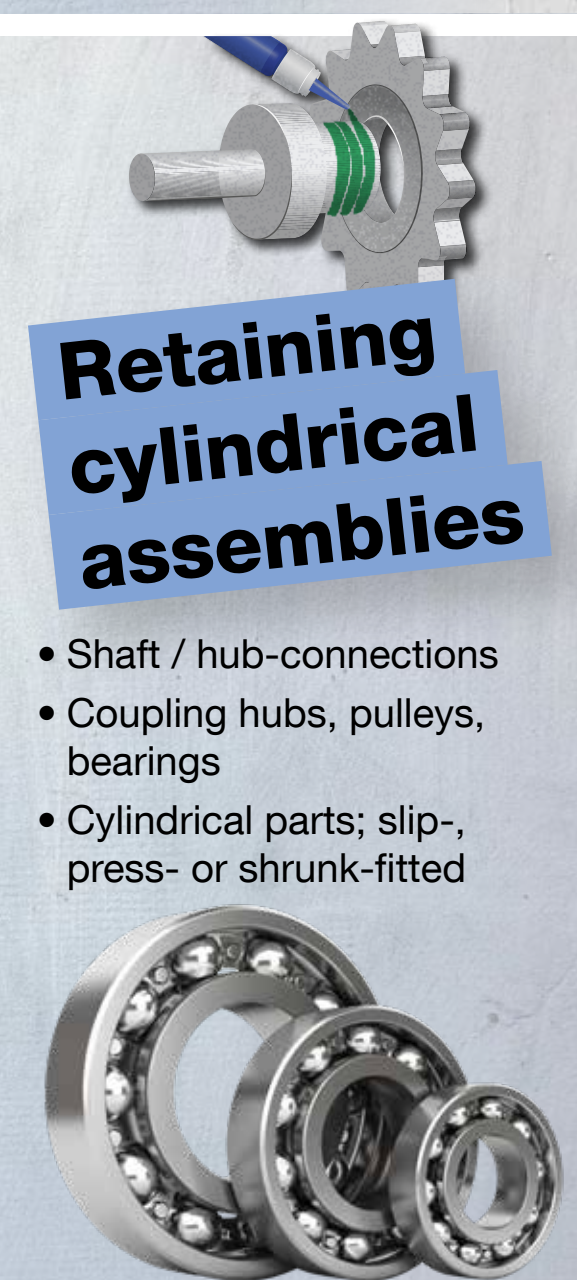
| Pictogram | Typ-No. | Application | Colour | For threaded joints up to | Viscosity at +25°C in mPa.s Brookfield | Cap filling capacity in mm max. | Breakaway strength Nm (Thread*) | Prevailing strength Nm (Thread*) | Shear strength** N/mm² / (psi) (DIN 54452) | Handling strength at room temperature | Final strength at room temperature | Temperature resistance °C / (°F) |
|-----------|---------------|--|-------------|---------------------------|--|---------------------------------|---------------------------------|----------------------------------|--|---------------------------------------|------------------------------------|----------------------------------|
| | AN 302-21 | Threadlocking, vibration-proof; low viscosity, low strength, easy disassembly | purple | M 12 | 125 | 0,10 | 7 - 10 | 3 - 6 | 4 - 7 (580 - 1.015) | 10 - 20 | 3 - 6 | -60 to +150 (-76 to +302) |
| | AN 302-22 | Threadlocking, vibration-proof; medium viscosity, low strength, easy disassembly | purple | M 36 | 1.000 mt | 0,20 | 4 - 8 | 2 - 4 | 3 - 5 (435 - 725) | 10 - 20 | 3 - 6 | -60 to +150 (-76 to +302) |
| | AN 302-40 | Threadlocking, vibration-proof; DVGW² approval, medium viscosity, medium strength, disassembly with normal tools | transparent | M 20 R ¾" | 600 nt | 0,15 | 12 - 16 | 18 - 24 | 8 - 12 (1.160 - 1.740) | 10 - 20 | 3 - 6 | -60 to +150 (-76 to +302) |
| | AN 302-41 | Threadlocking; low viscosity, medium strength, disassembly with normal tools | blue | M 12 | 125 nt | 0,10 | 10 - 15 | 12 - 16 | 8 - 12 (1.160 - 1.740) | 10 - 20 | ca. 3 | -60 to +150 (-76 to +302) |
| | AN 301-43 NSF | Threadlocking, drinking water³ and DVGW² approval, higher viscosity, medium strength, disassembly with normal tools | blue | M 36 | 2.000 - 8.000 mt | 0,25 | 18 - 22 | 9 - 11 | 10 - 13 (1.450 - 1.885) | 5 - 15 | 1 - 3 | -60 to +150 (-76 to +302) |
| | AN 301-70 NSF | Threadlocking, drinking water³ approval, medium viscosity, high strength, hard to disassemble | green | M 25 | 500 - 900 nt | 0,15 | 25 - 35 | 40 - 50 | 14 - 20 (2.030 - 2.900) | 5 - 15 | 5 - 10 | -60 to +150 (-76 to +302) |
| | AN 302-42 | Threadlocking; drinking water³ approval, medium viscosity, medium strength, disassembly with normal tools | blue | M 36 | 1.000 mt | 0,20 | 14 - 18 | 5 - 8 | 8 - 12 (1.160 - 1.740) | 10 - 20 | 3 - 6 | -60 to +150 (-76 to +302) |
| | AN 302-43 | Universal threadlocking type; drinking water¹ and DVGW² approval, higher viscosity, medium strength, disassembly with normal tools | blue | M 36 | 2.000 - 7.000 mt | 0,25 | 17 - 22 | 8 - 12 | 9 - 13 (1.305 - 1.885) | 10 - 20 | 1 - 3 | -60 to +200 (-76 to +392) |
| | AN 302-44 | Threadlocking, drinking water¹ and DVGW² approval, higher viscosity, medium strength, easy disassembly | blue | M 36 | 3.000 - 8.000 mt | 0,25 | 17 - 22 8 - 12*** | 8 - 12 5 - 8*** | 9 - 13 (1.305 - 1.885) | 10 - 20 20 - 40*** | 1 - 3 4 - 8*** | -60 to +200 (-76 to +392) |
| | AN 302-50 | Locking of threads and stud bolts; medium viscosity, high strength, hard to disassemble | transparent | M 20 R ¾" | 500 nt | 0,15 | 30 - 35 | 55 - 70 | 25 - 35 (3.625 - 5.075) | 2 - 5 | 2 - 4 | -60 to +175 (-76 to +347) |
| | AN 302-60 | Threadlocking for passive materials such as stainless steel, drinking water³ approval, aluminium, etc., fast bonding without activator; medium viscosity, high strength, hard to disassemble | green | M 20 R ¾" | 700 - 1.000 nt | 0,15 | 30 - 35 15 - 20*** | 55 - 70 30 - 35*** | 25 - 35 (3.625 - 5.075) | 2 - 5 5 - 10*** | 2 - 4 6 - 12*** | -60 to +200 (-76 to +392) |
| | AN 302-70 | Locking of threads and stud bolts; drinking water¹ and DVGW² approval, medium viscosity, high strength, hard to disassemble | green | M 20 R ¾" | 500 nt | 0,15 | 28 - 35 | 50 - 65 | 15 - 20 (2.175 - 2.900) | 10 - 20 | 3 - 6 | -60 to +200 (-76 to +392) |
| | AN 302-71 | Locking of threads and stud bolts; medium viscosity, high strength, hard to disassemble | red | M 20 R ¾" | 500 nt | 0,15 | 28 - 35 | 50 - 65 | 15 - 20 (2.175 - 2.900) | 10 - 20 | 3 - 6 | -60 to +150 (-76 to +302) |
| | AN 302-72 | Locking of threads and stud bolts; drinking water¹ and DVGW² approval, high-temperature resistant, higher viscosity, high strength, hard to disassemble | red | M 56 R 2" | 6.000 - 15.000 mt | 0,30 | 20 - 30 | 40 - 75 | 10 - 15 (1.450 - 2.175) | 20 - 40 | 5 - 10 | -60 to +230 (-76 to +446) |
| | AN 302-90 | Threadlocking, for locking after mounting and sealing of hair cracks; low viscosity, high strength, hard to disassemble | green | M 5 kapillar | 10 - 20 | 0,07 | 15 - 25 | 30 - 40 | 8 - 12 (1.160 - 1.740) | 5 - 20 | ca. 3 | -60 to +150 (-76 to +302) |
| | AN 302-62 | Threadlocking; higher viscosity, high strength, hard to disassemble | red | M 36 | 1.500 - 6.500 mt | 0,25 | 20 - 25 | 40 - 55 | 10 - 15 (1.450 - 2.175) | 10 - 20 | 3 - 6 | -60 to +150 (-76 to +302) |



Sealing of threaded pipes and fittings

- Threaded connections
- Hydraulic and pneumatic systems
- Cooler and compressed air systems

| | | | | | | | | | | | | |
|---------------|---|---|-----------|--------------------|--------------------|---------|-----------------------|-------------------------|-------------------------|-----------------------|---------------------------|---------------------------|
| | SI 303-31 | Pipe and thread sealing for plastics, drinking water¹ approval, low strength | white | M 80 R 3" | pasty/stable | 0,50 | < 1,5 | < 0,5 | < 1 | 24 | 3 | -40 to +180 (-40 to +356) |
| | AN 301-65 NSF | Pipe and flange sealing (with PTFE), drinking water approval³, high viscosity, medium strength, disassembly with normal tools | white | M 80 R 3" | 180.000 - 300.000 | 0,50 | 4 - 8 | 1 - 3 | 2 - 6 (290 - 870) | 10 - 20 | 24 | -60 to +150 (-76 to +302) |
| | AN 301-72 NSF | Pipe and flange sealing (with PTFE), drinking water³ and DVGW² approval, WRAS high viscosity, medium strength, disassembly with normal tools | white | M 80 R 3" | 15.000 - 60.000 ht | 0,30 | 5 - 10 | 4 - 6 | 5 - 7 (725 - 1.015) | 15 - 30 | 6 - 12 | -60 to +200 (-76 to +392) |
| | AN 305-67 | Pipe and flange sealing (with PTFE) high viscosity, low strength, easy disassembly | white | M 80 R 3" | 170.000 - 410.000 | 0,60 | 3 - 5 | 2 - 4 | 6 - 8 (870 - 1.160) | 120 - 240 | 24 - 72 | -50 to +175 (-58 to +347) |
| | AN 302-25 | Sealing of threaded pipes and fittings, vibration-proof, high viscosity, low strength, easy disassembly | brown | M 80 R 3" | 6.000 - 30.000 mt | 0,30 | 5 - 8 | 2 - 4 | 3 - 5 (435 - 725) | 15 - 30 | 3 - 6 | -60 to +150 (-76 to +302) |
| | AN 302-45 | Sealing of threaded pipes and fittings for coarse threaded connections; DVGW² approval, high viscosity, medium strength, disassembly with normal tools | blue | M 80 R 3" | 6.000 - 30.000 mt | 0,30 | 10 - 15 | 12 - 18 | 8 - 12 (1.160 - 1.740) | 15 - 30 | 3 - 6 | -60 to +150 (-76 to +302) |
| | AN 302-75 | Sealing of threaded pipes and fittings for coarse threaded parts and flanges; BAM³, high viscosity, high strength, hard to disassemble | green | M 80 R 3" | 14.000 - 24.000 mt | 0,30 | 40 - 50 | 40 - 50 | 15 - 25 (2.175 - 3.625) | 15 - 30 | 3 - 6 | -60 to +150 (-76 to +302) |
| | AN 302-77 | Sealing of threaded pipes and fittings for coarse threaded parts and flanges; high viscosity, high strength, hard to disassemble | red | M 36 | 6.000 | 0,25 | 30 - 40 | 10 - 15 | 35 - 45 (5.075 - 6.525) | 40 - 60 | 6 - 12 | -60 to +150 (-76 to +302) |
| | AN 305-78 | Pipe and flange sealing for passive materials, drinking water³ and DVGW² approval, BAM³, high viscosity, medium strength, disassembly with normal tools | yellow | M 80 R 3" | 50.000 - 80.000 ht | 0,50 | 18 - 22 11 - 16*** | 10 - 14 4 - 7*** | 6 - 13 (870 - 1.885) | 15 - 30 25 - 50*** | 1 - 3 4 - 8*** | -60 to +150 (-76 to +302) |
| | AN 302-80 | Sealing of threaded pipes and fittings for passive materials such as stainless steel, aluminium, etc. - fast bonding without activator; higher viscosity, drinking water³, high strength, hard to disassemble | green | M 36 | 3.000 - 6.000 mt | 0,20 | 35 - 45 15 - 20*** | 50 - 70 25 - 35*** | 20 - 30 (2.900 - 4.350) | 2 - 5 5 - 10*** | 2 - 4 6 - 12*** | -60 to +200 (-76 to +392) |
| | AN 305-42 | Sealing of hydraulic and pneumatic systems, universal product; DVGW² approval, medium viscosity, medium strength, disassembly with normal tools | brown | M 20 R ¾" | 500 nt | 0,15 | 12 - 15 | 18 - 22 | 8 - 12 (1.160 - 1.740) | 10 - 20 | 2 - 4 | -60 to +150 (-76 to +302) |
| | AN 305-72 | Pipe and flange sealing (with PTFE), instant seal, drinking water³, DVGW² and AGA¹ approval, high viscosity, medium strength, disassembly with normal tools | white | M 80 R 3" | 17.000 - 50.000 ht | 0,40 | 7 - 10 | 2 - 4 | 4 - 6 (580 - 870) | 20 - 40 | 5 - 10 | -60 to +150 (-76 to +302) |
| AN 305-11 | Sealing of threaded pipes and fittings; drinking water³ and DVGW² approval, higher viscosity, medium strength, disassembly with normal tools | white | M 80 R 3" | 17.000 - 50.000 ht | 0,40 | 7 - 10 | 2 - 4 | 4 - 6 (580 - 870) | 20 - 40 | 5 - 10 | -60 to +150 (-76 to +302) | |
| AN 305-77 NSF | Universal sealing type for pipes and fittings; drinking water³, DVGW² and AGA¹ approval, BAM³, NSF S2, WRAS, high viscosity, medium strength, disassembly with normal tools | yellow | M 80 R 3" | 24.000 - 70.000 ht | 0,50 | 18 - 22 | 10 - 14 | 6 - 13 (870 - 1.885) | 15 - 30 | 1 - 3 | -60 to +150 (-76 to +302) | |
| AN 305-86 | Pipe sealing, extra strong higher viscosity, hard to disassemble | red | M 56 R 2" | 6.000 - 7.000 nt | 0,30 | 15 - 30 | 25 - 45 | 10 - 20 (1.450 - 2.900) | 60 - 90 | 12 - 24 | -60 to +150 (-76 to +302) | |



Retaining cylindrical assemblies

- Shaft / hub-connections
- Coupling hubs, pulleys, bearings
- Cylindrical parts; slip-, press- or shrunk-fitted

| | | | | | | | | | | | | |
|--|---------------|---|--------|-----------|----------------------|------|-----------------------|-----------------------|-------------------------|--------------------|--------------------|---------------------------|
| | AN 301-38 NSF | Retaining cylindrical assemblies, drinking water³ approval, medium viscosity, high strength, hard to disassemble | green | M 36 | 2.000 - 3.000 mt | 0,20 | 30 - 40 | 45 - 60 | 20 - 25 (2.900 - 3.625) | ca. 5 | 2 - 4 | -60 to +150 (-76 to +302) |
| | AN 301-48 NSF | Retaining cylindrical assemblies, drinking water³ and DVGW² approval, WRAS, medium viscosity, high strength, hard to disassemble | green | M 20 R ¾" | 450 - 650 nt | 0,15 | 25 - 30 | 40 - 55 | 25 - 30 (3.625 - 4.350) | 2 - 6 | 2 - 4 | -60 to +175 (-76 to +347) |
| | AN 306-01 | Retaining cylindrical assemblies, low viscosity, high strength, hard to disassemble | green | M 12 | 125 nt | 0,10 | 25 - 30 | 50 - 60 | 17 - 22 (2.466 - 3.190) | 10 - 20 | 2 - 4 | -60 to +150 (-76 to +302) |
| | AN 306-03 | Retaining cylindrical assemblies, low viscosity, high strength, hard to disassemble | green | M 12 | 125 nt | 0,10 | 25 - 30 | 50 - 60 | 15 - 18 (2.175 - 2.610) | 10 - 20 | 2 - 4 | -60 to +150 (-76 to +302) |
| | AN 306-10 | Retaining cylindrical assemblies, for passive materials such as stainless steel, aluminium, etc. fast bonding without activator; drinking water³ approval, medium viscosity, high strength, hard to disassemble | green | M 20 R ¾" | 700 - 1.000 nt | 0,15 | 30 - 35 15 - 20*** | 55 - 70 30 - 35*** | 25 - 35 (3.625 - 5.075) | 2 - 5 5 - 10*** | 2 - 4 6 - 12*** | -60 to +200 (-76 to +392) |
| | AN 306-20 | Retaining cylindrical assemblies, drinking water³ and DVGW² approval, BAM³, WRAS, high-temperature resistant; higher viscosity, high strength, hard to disassemble | green | M 56 R 2" | 3.000 - 6.000 nt | 0,20 | 28 - 36 | 40 - 55 | 15 - 25 (2.175 - 3.625) | 20 - 40 | ca. 24 | -60 to +200 (-76 to +392) |
| | AN 306-30 | Retaining cylindrical assemblies, for passive materials such as stainless steel, aluminium, etc. - fast bonding without activator; BAM³, higher viscosity, high strength, hard to disassemble, drinking water³ approval | green | M 36 | 3.000 - 6.000 mt | 0,20 | 35 - 45 15 - 20*** | 50 - 70 25 - 35*** | 20 - 30 (2.900 - 4.350) | 2 - 5 5 - 10*** | 2 - 4 6 - 12*** | -60 to +200 (-76 to +392) |
| | AN 306-40 | Retaining cylindrical assemblies, high-temperature resistant, slow-curing, medium viscosity, high strength, hard to disassemble | green | M 20 R ¾" | 600 nt | 0,15 | 20 - 30 | 30 - 40 | 15 - 30 (2.175 - 4.350) | ca. 240 | ca. 24 | -60 to +200 (-76 to +392) |
| | AN 306-48 | Retaining cylindrical assemblies, high-temperature resistant; drinking water³ approval, BAM³, medium viscosity, high strength, hard to disassemble | green | M 20 R ¾" | 550 nt | 0,15 | 30 - 35 | 55 - 70 | 25 - 35 (3.625 - 5.075) | ca. 5 | 2 - 4 | -60 to +175 (-76 to +347) |
| | AN 306-41 | Retaining cylindrical assemblies, medium viscosity, medium strength, disassembly with normal tools | yellow | M 20 R ¾" | 550 nt | 0,12 | 12 - 15 | 17 - 22 | 8 - 12 (1.160 - 1.740) | 10 - 20 | 3 - 6 | -60 to +150 (-76 to +302) |
| | AN 306-38 | Retaining cylindrical assemblies under high dynamical stress, fast-curing; drinking water³ approval, medium viscosity, high strength, hard to disassemble | green | M 36 | 2.500 mt | 0,20 | 35 - 45 | 50 - 70 | 25 - 30 (3.625 - 4.350) | ca. 5 | 1 - 3 | -60 to +150 (-76 to +302) |
| | AN 306-60 | Assembly of cylindrical parts; ideal for repair of worn out bearings, bushes and damaged seats of bearings as well as for larger gaps up to 0,5 mm, high viscosity, high strength, hard to disassemble | silver | M 56 R 2" | 150.000 - 900.000 ht | 0,50 | 35 - 45 | 10 - 20 | 25 - 30 (3.625 - 4.350) | 15 - 30 | 3 - 6 | -60 to +150 (-76 to +302) |



Flange sealing, gasketing

- Flanges
- Cases
- Lids

| | | | | | | | | | | | | |
|-----------|---|---|--------|--------------------|---------------------|--------|---------|-------------------|------------------------|-----------|---------------------------|---------------------------|
| | AN 301-65 NSF | Pipe and flange sealing (with PTFE) drinking water³ approval, high viscosity, medium strength, disassembly with normal tools | white | M 80 R 3" | 180.000 - 300.000 | 0,50 | 4 - 8 | 1 - 3 | 2 - 6 (290 - 870) | 10 - 20 | 24 | -60 to +150 (-76 to +302) |
| | AN 301-72 NSF | Pipe and flange sealing (with PTFE) drinking water³ and DVGW² approval, high viscosity, medium strength, disassembly with normal tools | white | M 80 R 3" | 15.000 - 60.000 ht | 0,30 | 5 - 10 | 4 - 6 | 5 - 7 (725 - 1.015) | 15 - 30 | 6 - 12 | -60 to +200 (-76 to +392) |
| | AN 305-18 NSF | Flange sealing and gasketing, large gap-filling with instant seal; high viscosity, high strength, hard to disassemble | red | --- | 80.000 - 500.000 ht | 0,50 | 12 - 18 | 18 - 24 | 8 - 13 (1.160 - 1.885) | 10 - 20 | 3 - 6 | -60 to +200 (-76 to +392) |
| | AN 305-67 | Pipe and flange sealing (with PTFE) high viscosity, low strength | white | M 80 R 3" | 17.000 - 410.000 ht | 0,60 | 3 - 5 | 2 - 4 | 6 - 8 (870 - 1.160) | 120 - 240 | 24 - 72 | -50 to +175 (-58 to +347) |
| | AN 305-72 | Pipe and flange sealing (with PTFE), instant seal, drinking water³, DVGW² and AGA¹ approval, high viscosity, medium strength, disassembly with normal tools | white | M 80 R 3" | 17.000 - 50.000 ht | 0,40 | 7 - 10 | 2 - 4 | 4 - 6 (580 - 870) | 20 - 40 | 5 - 10 | -60 to +150 (-76 to +302) |
| | AN 305-74 | Gasketing of flanges, gearboxes and motor housings, universal type, high-temperature resistant; high viscosity, high strength, hard to disassemble | orange | --- | 30.000 - 100.000 ht | 0,50 | 16 - 24 | 5 - 10 | 5 - 10 (725 - 1.450) | 15 - 30 | ca. 12 | -60 to +180 (-76 to +356) |
| | AN 305-10 | Gasketing of flanges, gearboxes and motor housings, high-temperature resistant; AGA¹ approval, BAM³, high viscosity, high strength, hard to disassemble | orange | --- | 70.000 - 300.000 ht | 0,50 | 18 - 25 | 15 - 25 | 5 - 10 (725 - 1.450) | 15 - 30 | 6 - 12 | -60 to +200 (-76 to +392) |
| AN 305-73 | Gasketing of flanges, gearboxes and motor housings, elastic; high viscosity, low strength, easy disassembly | light green | --- | 17.000 - 50.000 ht | 0,30 | 6 - 10 | 2 - 5 | 4 - 6 (580 - 870) | 20 - 40 | ca. 12 | -60 to +150 (-76 to +302) | |

Recommended additional products



| Product | Application | Content | Colour | Odour |
|--------------------------------------|--|------------------|------------|----------|
| Thread Sealing Cord DF 175 | For permanent and safe sealing of almost all metal- and plastic threads. | Mastic can 175 m | white | no odour |
| Plast-o-Seal® | For sealing the smoothly treated flanges of machine, gearbox and motor casing flanges. Improves the performance of both old and new gaskets. | 90g / 120g 300g | blue | no odour |
| Surface Cleaner | For cleaning and degreasing of surfaces to be joined or sealed with WEICON adhesives and sealants. | 150 ml 400 ml | colourless | solvent |
| Sealant and Adhesive Remover | Removes residues of cured sealants and adhesives as well as oil, charcoal, lacquers and paints. | 400 ml | milky | solvent |
| Activator F Spray Activator F Liquid | For activating passive surfaces, like e.g. aluminium, stainless steel, zinc, chrome, etc. as well as in case of low ambient temperatures (less than +10°C) and for large gaps. | 200 ml 1000 ml | turquoise | solvent |

Your personal contact WhatsApp

 * Questions on Product Use

 * Price Request * Alternatives to Competitive Products

 * Interest in Cooperation * Certificates

 * Adhesive Finder * News ...

1 Hygiene-Institut des Ruhrgebiets
 2 DVGW Certificate for use in gas supply and hot water systems
 3 BAM tested and safety-related evaluated according to leaflet M 031-1
 * List of nonmetallic materials compatible with oxygen (DGUV information 213-078) of BG RCI
 * Australian Gas Association - Approval - Gas Class II 500 kPa
 * Certified to NSF/ANSI 61
 We do not recommend WEICONLOCK for long-term use on connections of copper and its alloys if exposed to water of more than +40°C.
 R = low thixotrope
 mt = medium thixotrope
 ht = high thixotrope
 * Strength values based on M 10 screws, 8.8 grade, thickness of 0,8 ± 0,2
 ** Static shear strength based on cylindrical parts of about Ø 13 mm, tolerance (D-d) = ± 0,05 mm, l/d = 0,88
 *** Strength measured on V4A stainless steel screws
 All recommendations and technical data are based on laboratory tests and extensive experiences by users. They have been compiled with greatest care but we take no warranty of any kind and accept no liability for the results obtained.