

Coating Center



Tanktec® Product Range

Tank lid Seals, Gaskets, Valve Seats & O-Rings

Total Tank Sealing Solutions for Complete Peace of Mind



Founded in 2003, Coating Center is a technology-driven business that has over a decade of experience in the coatings and sealing industry.

The company originally focussed on, and had great success with, physically resistant material coatings for the food industry – these include Chrome Carbide, Tungsten Carbide and Titanium Carbide for where extremely hard and dense coatings with almost nil porosity are required, to the exacting standards required in critical applications.



Success in this market naturally progressed and different types of coatings were developed outside the range of the physically resistant materials, primarily being chemically resistant coatings for arduous applications. After servicing the chemical industries with coatings products for a number of years, Coating Center increased their portfolio of solutions by developing a range of products machined from chemically resistant materials, primarily PTFE.



Constant innovation and diversification has resulted in a wide range of high quality products. This, coupled with extensive industry experience, has given Coating Center a significant competitive advantage to service the market.

Coating Center have developed a full range of specifically designed, innovative and advantageous products that are ideally suited to the Tank Seal and Gasket market. This innovative product range is the result of over ten years research, development and application of our expertise. The natural product progression, constant innovation and knowledge development has resulted in a market leading product line, at an extremely competitive cost.

In addition to excellent product quality and value, Coating Center is totally committed to providing exceptional customer service. This is achieved by our customer-focused ethos, wide product range and extensive inventory – everything is geared around providing absolute reliability and assurance to our customers.

This approach has enabled Coating Center to become a key supplier to some of the major companies in the sealing industry, in addition to working with Original Equipment manufacturers to develop reliable solutions for their applications. We are trusted partners with some of the industry leaders, giving you the reassurance that Coating Center will deliver on our promises.



Tanktec® Products

Tanktec® Tank lid Seals

Coating Center has developed a unique technique to efficiently design and manufacture FEP encapsulated seals in larger diameters and cross sections. FEP seals combine the chemical resistance of FEP with the energising properties of an elastomeric silicone core.



Tanktec® Valve Seats & O-Rings

Tank containers are fitted with an increasing number of different designs of valves, even from the same manufacturer. Coating Center works closely with end-users and is committed to keeping stock of a large selection of machined PTFE valve seats, designed to seamlessly function in every valve type from any maker.



Tanktec® PTFE / CNAF Gaskets

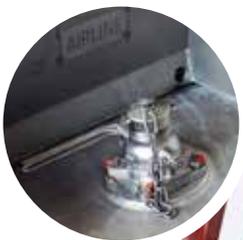
Tanktec® PTFE Envelope gaskets combine the chemical resistance and hygienic properties of virgin PTFE with the better mechanical properties of a Compressed Non-Asbestos Fibre (CNAF) filler. The PTFE envelope is 0.5mm thick with a unique inner diameter profile. The filler is made from non-asbestos mineral and organic fibres with a NBR rubber binder.



Application Areas

Coating Center Tanktec® range of products will seal all external interfaces found on commercial and industrial tank containers, in both standard and custom sizes.

Airline valve



Manlid



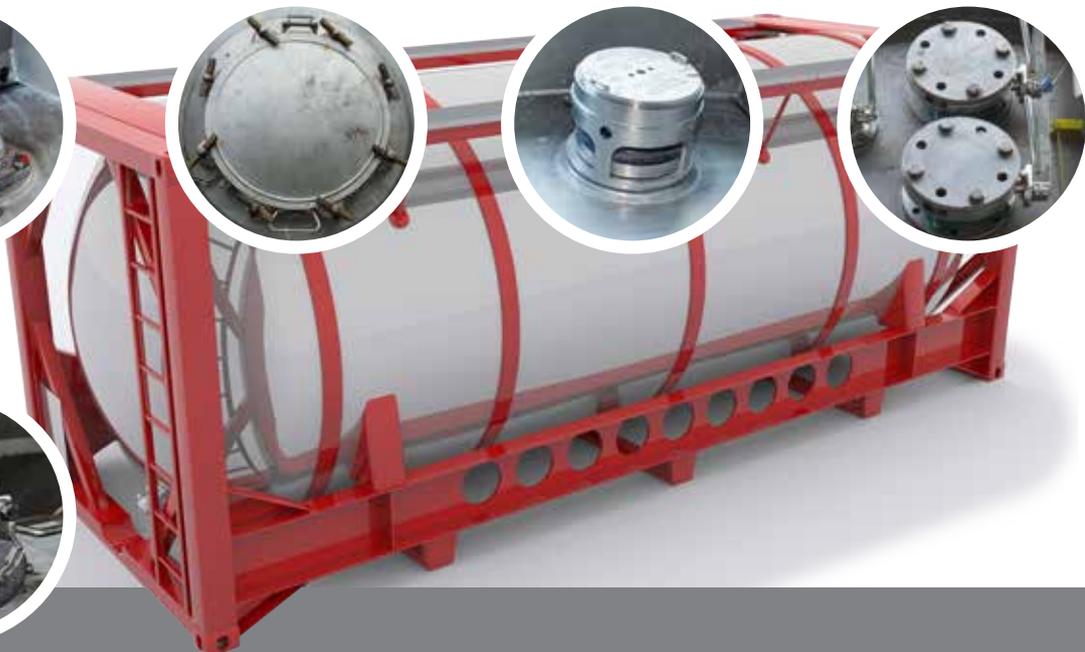
Safety valve



Top side flanges



Bottom outlet



Tanktec® Ultraseal™ Tank lid Seals

- Endless and seamless encapsulation provides maximum product integrity, superior to competitor technology
- Advanced, superior performance material grades of FEP/PFA encapsulation and silicone core provides reliability in service
- Square, round and rectangular cross-sections – Universal fit provides a standard solution for all applications
- Up to 850mm I.D covers all standard & large diameter applications
- Chemically inert – Eliminates product compatibility issues and ensures long service-life
- FDA compliant – Approved and safe to use in all food, drink & pharmaceutical applications
- Easy to install – Eliminates operator error & product contamination / leaks due to mis-installation
- Truly universal Tank lid seal – Eliminates suitability problems and reduces stores inventory

Tank containers are fitted with FEP Encapsulated O-Rings as main Footvalve seal and PV valve seals as standard. It is rare to see a different O-Rings in these applications since they perform well with almost all loaded products

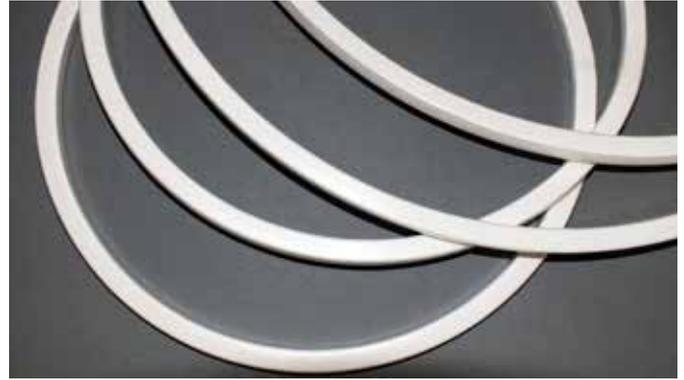
Why not standardize on a FEP Encapsulated seal for the manlid?

Whilst the typical PTFE impregnated braided manlid seals are known to leak, the alternative elastomer energised products are not fully encapsulated and only use a thin layer of PTFE. Tank lid seals made from PTFE are hard and have reduced service life performance due to cold flow or creep of the PTFE. Furthermore these alternative tank lid seals often have joints in the PTFE, which are often the first to fail and cause leakage. Standard elastomeric manlid seals are only suitable for certain chemicals/product as per the selected elastomer resistance.

Coating Center has selected advanced material grades and developed unique techniques to efficiently design and manufacture FEP encapsulated tank lid seals in a variation of cross sections. Ultraseal™ combines the chemical resistance of FEP with the energising properties of an elastomeric silicone core.

Led by the application parameters and performance requirements, we have identified advanced and superior performance material grades of both FEP and silicone for our Ultraseal™. The silicone core compound offers 40% improved compression set resistance and low deformation under load; the FEP encapsulation has highest possible tensile strength and tear resistance.

These unique materials, production techniques and processes, developed and applied by Coating Center allow us to produce not only superior products in standard Round Sections with absolutely no gap between the core and the encapsulation but also to



produce Square and Rectangular Sections, without gaps and weak points at the corners that are necessary from the production via standard techniques. As such, not only is our product superior, but it can be produced far more cost efficiently and with even greater savings of superior performance and service life.

Ultraseal™ are specifically shaped, dimensioned and designed to outperform any known manlid seal on the market today, assuring near universal chemical resistance, reliable gas-tight sealing performance and ease of fitting.

Correct compression of any type of seal is critical and effects performance and seal life; we offer a calibrated, pre-set torque wrench with swingbolt adaptor to overcome the most common cause of premature seal failure. We also provide unique seal removal facility in order that the seal can be removed without damage and potentially re-used.

Coating Center's range of Ultraseal™ now makes FEP encapsulated tank lid seals true universal, reliable and economical seals for any tank lid application.

Service capabilities:

Pressure: Gas-tight up to 6 Bar (87psi)

Temperature: -60°C to +205°C (-76°F to 400°F)

Media: FEP is inert to almost all chemicals, with the exception of some alkali metals (molten or in solution), Fluorine and by some rare fluorinated compounds and complex halogen compounds at high temperatures and pressures.

As part of Coating Center's commitment to offer a full range of seals and gaskets for tank containers, we stock tank lid seals in a variety of materials and dimensions, as shown in this brochure.

Tanktec® Ultraseal™ Range Part Codes

FEP/White silicone Tank lid seal for 300mm manlids - 14 x 14mm	SA-W-02940-X-140-140
FEP/White silicone Tank lid seal for 500mm manlids - 14 x 14mm	SA-W-04860-X-140-140
FEP/White silicone Tank lid seal for 500mm manlids - 14 x 12mm	RA-W-04860-X-140-120
FEP/White silicone Tank lid seal for 500mm manlids - 14 x 10mm	RA-W-04860-X-140-100

Tanktec® Ultraseal™ Advantages

TankTec Ultraseal™ are the only truly universal products that eliminate the difficult task of seal selection. Why risk product contamination and environmental leakage due to an inferior sealing device? Particularly when a truly universal Tank Lid seal is available from Coating Center at an economical price. Solid Rubber seals are only suitable for a limited range of specific chemicals, and even with encapsulation on 3 sides, are prone to damage, chemical penetration and premature failure. Braided seals cannot hold any pressure and do not meet necessary approval tests, and PTFE seals, whether solid or hollow, are subject to cold-flow and failure under pressure.



Tank lid Seal Comparison Chart

Tanklid seal	Chemical resistance	Temperature range	Sealing properties	Universal in use	FDA compliant	Easy to install	Required compression	Removable without damage	Potentially re-usable
PTFE Braided	Good	-50° up to 120° Celsius	Poor	Fair	No	No	High	No	No
White NBR	Limited	-30° up to 100° Celsius	Excellent	Poor	No	No	Low	No	No
Black EPDM	Limited	-45° up to 120° Celsius	Excellent	Poor	No	No	Low	No	No
Hypalon	Limited	-30° up to 120° Celsius	Excellent	Poor	No	No	Low	No	No
FKM	Fair	-15° up to 200° Celsius	Excellent	Fair	No	No	Low	No	No
PTFE/EPDM	Good	-45° up to 120° Celsius	Excellent	Good	No	Yes	Low	No	No
Solid PTFE	Excellent	-50° up to 200° Celsius	Poor	Good	Yes	No	High	No	No
Ultraseal™ FEP	Excellent	-60° up to 200° Celsius	Excellent	Excellent	Yes	Yes	Low	Yes	Yes
Ultraseal™ PFA	Excellent	-60° up to 260° Celsius	Excellent	Excellent	Yes	Yes	Low	Yes	Yes

Tanktec® PTFE / EPDM Tank lid seals

Our PTFE/EPDM tank lid seals are manufactured with a unique one piece PTFE envelope, bonded to an EPDM rubber core, where other's offer a welded PTFE envelope. The PTFE envelope reaches the outside diameter of the tank lid seal, where others offer seals with exposed rubber on the outside diameter. We offer 14x12mm cross section seals, which fit all 500mm manlids and 14x14mm cross section seals, which fit all 300mm manlids.

Product Range Part Codes

PTFE/EPDM tank lid seal for 300mm manlids - 14 x 14mm SX-T-02940-X-140-140

PTFE/EPDM tank lid seal for 500mm manlids - 14 x 12mm RX-T-04840-X-140-120



Hypalon® Tank lid seals

Our Hypalon® or CSM seals are resistant to dilute acids, alcohols, alkalis, mineral and silicone oils and have excellent ozone and weathering resistance. We offer 14x12mm cross section seals, which fit all 500mm manlids and 14x14mm cross section seals, which fit all 300mm manlids.

Product Range Part Codes

Hypalon® tank lid seal for 300mm manlids 14 x 14mm SX-H-02940-X-140-140

Hypalon® tank lid seal for 500mm manlids 14 x 12mm RX-H-04860-X-140-120



Tanktec® FKM Tank lid seals

Our FKM rubber tank lid seals are manufactured from quality FKM compound with 2 round corners for ease of fitting to manlids . We offer 14 x 12mm cross section seals, which fit all 500mm manlids and 14 x 14mm cross section seals, which fit all 300mm manlids.

Product Range Part Codes

FKM tank lid seal for 300mm manlids 14 x 14mm SX-F-02940-X-140-140

FKM tank lid seal for 500mm manlids 14 x 12mm RX-F-04860-X-140-120



Tanktec® White NBR Tank lid seals

Our White NBR rubber tank lid seals are manufactured from quality, white coloured NBR rubber with 2 round corners for ease of fitting to manlids . We offer 14 x 12mm cross section seals, which fit all 500mm manlids and 14 x 14mm cross section seals, which fit all 300mm manlids.

Product Range Part Codes

White NBR tank lid seal for 300mm manlids 14 x 14mm SX-S-02940-X-140-140

White NBR tank lid seal for 500mm manlids 14 x 12mm RX-S-04860-X-140-120



Tanktec® EPDM rubber Tank lid seals

Our EPDM rubber tank lid seals are manufactured from quality EPDM rubber with 2 round corners for ease of fitting to manlids . We offer 14x12mm cross section seals, which fit all 500mm manlids and 14x14mm cross section seals, which fit all 300mm manlids.

Product Range Part Codes

EPDM tank lid seal for 300mm manlids 14 x 14mm SX-E-02940-X-140-140

EPDM tank lid seal for 500mm manlids 14 x 12mm RX-E-04860-X-140-120



Tanktec® PTFE braided Tank lid seals

Our PTFE braided tank lid seals are manufactured from Acrylic fibre yarns, braided into a dense yet flexible packing. The packing is impregnated with a special PTFE emulsion, which after final processing does not release any grease or particles once installed and compressed. We offer 14x14mm and 15x10mm cross section lengths, which are ready to be fitted to the vast majority of 500mm manlids, without the need for cutting. The PTFE braided tank lid seals are pre-cut to an exactly determined length with 2, 45° ends.

Product Range Part Codes

PTFE braided tank lid seal - 10 x 15 x 1590mm with 2, 45° cut ends PP6-150-100-01590-45

PTFE braided tank lid seal - 14 x 14 x 1590mm with 2, 45° cut ends PP6-140-140-01590-45



Tanktec® FEP encapsulated O-Ring Range

FEP encapsulated O-Rings consist of an resilient elastomer O-Ring in a seamless encapsulation of FEP, combining the chemical resistance of Teflon® and excellent sealing capability of the elastomer into outstanding seals. This unique combination forms a highly effective, long lasting seal for the most demanding applications

The standard range of Tanktec® FEP encapsulated O-Rings are produced with a silicone rubber core. Genuine Viton™ is available as an alternative elastomer as well as PFA being available as an alternative encapsulation material for specific applications.

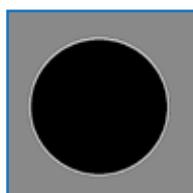
For applications where lower compressive forces may limit sealing ability of standard FEP encapsulated O-Rings, we offer hollow core O-Rings. The combination of a hollow core insert with a slightly lower hardness offers a more flexible, easier to squeeze O-Ring requiring less energy to activate its sealing capability.



FEP- silicone
O-Ring Hollow
Core



FEP- silicone
O-Ring Solid Core



FEP- Viton™ O-Ring
Solid Core



- Truly Universal Due to:
- Outstanding chemical resistance
- Wide temperature range: -60°C to 205°C (-75°F to 400°F)
- Low compression set provides excellent sealing capability
- Solid & hollow silicone cores and availability of Viton™ core
- Non-stick surface for easy clean-up
- High impact strength
- Complies with FDA regulations
- Eliminates contamination of fluids by elastomers
- Wide, stocked standard range for tank containers
- All other sizes available.

FEP Product Range Part Codes

FEP encapsulated O-Ring for Foot valve 79.12 x 5.33mm	CA-R-0791-B-053-053
FEP encapsulated O-Ring for Foot valve 81.0 x 5.33mm	CA-R-0810-B-053-053
FEP encapsulated O-Ring for Foot valve 81.92 x 5.33mm	CA-R-339-B
FEP encapsulated O-Ring for Foot valve 79.12 x 5.70mm	CA-R-0791-B-057-057
FEP encapsulated O-Ring for Foot valve 81.92 x 5.70mm	CA-R-0819-B-057-057
FEP encapsulated O-Ring HOLLOW CORE for Foot valve 81.0 x 5.33mm	CA-O-0810-B-053-053
FEP encapsulated O-Ring HOLLOW CORE for Foot valve 81.92 x 5.33mm	CA-O-339-B
FEP encapsulated O-Ring for PV valve vacuum poppet 31.34 x 3.53mm	CA-R-218-B
FEP encapsulated O-Ring for PV valve vacuum poppet 31.50 x 4.0mm	CA-R-0315-B-040-040
FEP encapsulated O-Ring HOLLOW CORE for PV valve vacuum poppet 31.34 x 3.53mm	CA-O-218-B
FEP encapsulated O-Ring HOLLOW CORE for PV valve vacuum poppet 31.50 x 4.0mm	CA-O-0315-B-040-040
FEP encapsulated O-Ring for PV valve pressure plate 66.8 x 5.70mm	CA-R-0668-B-057-057
FEP encapsulated O-Ring for PV valve pressure plate 69.2 x 5.33mm	CA-R-335-B
FEP encapsulated O-Ring for PV valve pressure plate 69.2 x 5.70mm	CA-R-0692-B-057-057

Tanktec® PTFE Valve Seats for Butterfly Valves and Ball Valves

- Precision machined from virgin PTFE
- DN 80 / 3 inch main seal fits valves from all makers
- Continuously expanding range of valve seats
- Available from stock

Tank containers are fitted with an increasing number of different designs of valves, even from the same manufacturer. Coating Center works closely with end-users and is committed to keeping stock of a large selection of machined PTFE valves seats, designed to seamlessly function in every valve type from any maker.

Our extensive experience in CNC machining and Fluoropolymers assures close tolerance machining. This guarantees that the valve seats will fit and seal in whatever climate the seals are used.

We inspect production batches by electronic imaging and specify the highest quality raw materials.



We can offer valve seats in filled and modified PTFE and application specific engineering of valve seats, also combining Stainless steel with Fluoropolymers or FEP encapsulated O-Rings in valve seat designs.



PTFE valve seat range for Butterfly valves



DN 50/2 inch main seat for butterfly valve
MB0472-0665P0054



DN 80/3 inch main seat for butterfly valve
MB0759-1048P0089

PTFE valve seats for Ball valves:



1 1/2 inch front and rear seat to suit BLACO/
FV airline valve

Front Seat: VF0295-0541P0102

Rear Seat: VR0310-0606P0105



1 1/2 inch front and rear seat to suit ATCO/
Perolo airline valve

Front Seat: VF0335-0532P0103

Rear Seat: VR0360-0656P0183



1 1/2 inch front and rear seat to suit Gestra
airline valve

Front Seat: VF0295-0540P0087

Rear Seat: VR0310-0599P0105

Also Available:

PTFE Front and Rear seal to suit NEW Perolo ATCO 1 1/2 inch airline ball valve

PTFE Front and Rear seal to suit Girard 1 1/2 inch airline ball valve

PTFE Front and Rear seals to suit various DN50 / 2 inch ball valves

Tanktec® Gaskets

Tanktec® PTFE Envelope gaskets

Tanktec® PTFE Envelope gaskets combine the chemical resistance and hygienic properties of virgin PTFE with the better mechanical properties of a Compressed Non-Asbestos Fibre (CNAF) filler. The PTFE envelope is 0.5mm thick with a unique inner diameter profile. The filler is made from non-asbestos mineral and organic fibres with a NBR rubber binder.

Applications:

Many years of experience in the fluid transportation industry and close cooperation with end-users have resulted in a comprehensive range of tailored PTFE envelope gaskets for tank containers

Tanktec® PTFE Envelope gaskets are available in specific flange dimensions as well as various Multi-fit sizes, designed to fit and seal various flanges and thereby eliminating the need for additional stock of gasket sizes. We offer both Inside Bolt Circle (IBC) or flat ring as well as Full Face (FF) gaskets with bolt holes for exact positioning on flanges.

PTFE envelope:

The Tanktec® PTFE Envelope gaskets are machined from virgin PTFE and have a unique inner diameter profile:



The dimensions of the PTFE envelopes are such that they cover the complete area with serrations on the flanges.

Service capabilities:

Pressure: > 10 Bar (145psi)

Temperature: Max 250°C (482°F)

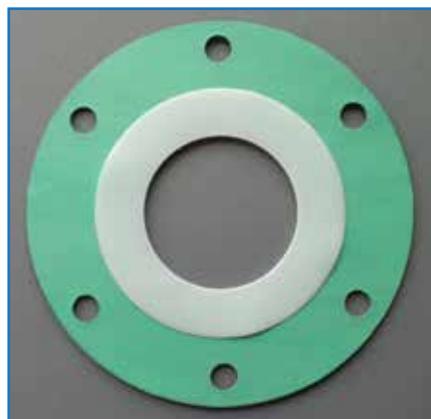
Media: PTFE is inert to almost all chemicals, with the exception of some alkali metals (molten or in solution) and by some rare fluorinated compounds at high temperatures and pressures.

Coating Center can offer flange gaskets in a large variety of materials from filled or modified PTFE to elastomeric and graphite based materials.

Tanktec® PTFE Envelope Gaskets for Bottom Outlet Arrangement



Multifit PTFE Envelope gasket for Footvalve to tank flange 4 / 8 hole - RU1140-2100S00251780



PTFE Envelope gasket, 6 holes unevenly spaced for footvalve to flanged b'fly v/v - RU0780-1970S00251680



Square Multifit gasket DN80/3" with 4 slotted holes - SU0900-1440S0025

Tanktec® PTFE Envelope gaskets for bottom outlet arrangement



PTFE envelope gasket DN 80 / 3" IBC/flat ring 90 x 130 x 2.5mm - RU0900-1300L0025

Also available: 80 x 130 x 2.5mm - RU0800-1300L0025



PTFE gasket DN80 / 3" butterfly with 6 holes on PCD 122mm - RU0900-1430S00301220



Tanktec® PTFE envelope gaskets for safety valves



PTFE envelope gasket for threaded PV valve - RS0760-0920L0040



PTFE envelope gasket for flanged PV valve - RU0840-1850S0025



PTFE envelope gasket for PV adaptor, 6 holes on PCD 105 - RU0760-1260S00401050

Tanktec® PTFE Envelope gaskets for airline valves



PTFE envelope gasket DN 50 for airline valve IBC/Flatring - RU0500-0800L0025



Multifit PTFE envelope gasket DN 50, 4 holes on PCD 110 and PCD 125 - RU0500-1500S00251250



PTFE envelope gasket DN 50 for Airline v/v, full face, 4 holes on PCD 100 - RU0500-1200S00251000

Tanktec® PTFE Envelope gaskets for top loading/discharge



Multifit Syphon tube/top discharge gasket
6 holes 13mm + 4 slotted holes - RU0900-
2000S00251680



6 holes, unevenly spaced, top flange to
flanged b'fly valve or blind flange - RU0780-
1970S00251680



Square Multifit gasket DN80 / 3" with 4
slotted holes, ID 100mm - SU1000-1440S0025



PTFE envelope gasket for recessed Syphon
tube flange - RU1000-1300L0025

Dust Cap Product Range

**Round solid PTFE gasket that sits
in the dust cap and seals on the
thread**

PTFE Dust Cap seal 3/4"	SG0160-0260P0010
PTFE Dust Cap seal 1"	SG0220-0320P0020
PTFE Dust Cap seal 1 1/2"	SG0350-0470P0020
PTFE Dust Cap seal 2"	SG0420-0600P0020
PTFE Dust Cap seal 3"	SG0720-0870P0020



Coating Center - Your Dedicated Partner for all Tank Sealing Solutions

Customer Service

Coating Center is dedicated to providing industry-beating customer service across the entire product range on offer. Our aim is to ensure that no matter what your requirements are, we are there to service your needs.

Stock

With industry-leading stock levels, Coating Center is perfectly placed to respond quickly to customer requirements and provide the right product on-time, every time.

Quality

Everything about Coating Center is dedicated to quality and best practice, from the cutting-edge production techniques down to the way we run our operations. Quality to us is more than just a tagline, it's how we do business.

Materials

We use only the highest quality materials in Coating Center products to ensure maximum reliable performance in arduous applications. We have a program of constant improvement and product innovation, continually developing new material specifications to improve sealing performance.

Prices

With our advanced production methodologies and expert application knowledge, Coating Center offer effective sealing solutions at the most competitive prices in the industry, often demonstrating a lower overall cost and increased performance.

Logistics

With our global delivery partners, Coating Center have the ability to get products to customers quickly and cost-effectively, keeping customers' operations running - delivering excellence as standard.





Unit 10 Eastover Farm, Abbots Ann,
Andover, UK, SP11 7BT
+44 (0) 1264 318 650
info@coatingcenterinc.com

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