RüKTECH Ceramic and Powder Coatings
801.783.2325

Company Info

RüKTECH is a locally based company, whose main goal is to provide Coating and Fabrication Services with a focus on Motorsports, to the Northern Utah region.
We at RüKTECH are also Racers ourselves. You can find us out on the track or out on the trails. We have a long history in the Coatings Industry, and can provide you with a coating solution to any problem you might have.

Our Coating Facility is one of two in the nation with the highest Certification for Aerospace Coatings. We use only the finest materials, to provide you with the best Product not only in Utah, but throughout the nation as well.

Program Info - Pick up & Delivery Service

RüKTECH is offering our pick up and delivery service, free of charge (certain restriction apply). We will be available to pick up and drop off any components that you need us to perform our services on. Minimums apply and only within 25 miles of our facility, please call for more details.

Turn Times - Our Goal is to have your components returned to you in 5 business days. If we pick it up on a Tuesday, then it will be dropped off the following Tuesday. Expedite service is available for a nominal fee.

Schedule - We will be providing this service twice a week, on Tuesday's and Thursday's or as needed.

Pricing – Along with this packet, we have included our price list. The pricing you see is for the Services rendered. We do not charge for the pickup or delivery.
For the Mandrel Bending and Plasma Cutting Services, it is priced per job. Please call or email for a quote.

Payment – When you parts are ready to be dropped off, we will call to receive payment via phone. We can also keep your card number on file. No product will be returned until payment is received.

If you have products or ideas that you need us to quote, simply call us at 801.783.2325 or email us (info@ruktech.com).

Fabrication and Coating Services

Coatings

Specialty Automotive coatings are designed and formulated to improve performance in engines and exhaust systems. There are many types of coatings, cermet (ceramic-metallic), full-ceramic, stainless plasma, heat dispersant, lubritic dry films, clear coatings, and powder coatings. These coatings offer benefits that any off-roader, custom shop, or racer would want… increased part life and durability of components inside and outside of the engine, protection against thermal oxidation on exhaust components, excellent corrosion protection, thermal insulation, and many more.

All of our cermet coatings can handle a minimum of 1200F. We also offer other coatings can handle well over 2000F. Cermet coatings should be used on any project that involves a high heat or a high performance engine. All of our cermet coatings can be applied to new and used exhaust components. We can apply coating on the inside and outside of exhaust components or outside only for turbo-charged applications.

Our line of specialty coatings offer all of the technical benefits listed above and more. They look great, they perform, and they save you money in the long run. Take a look at our coating options and see which one will be the best for you. Please consult with us so we can better serve you in choosing the correct coating for your application. All of our cermet coatings are available for upgrade on any exhaust component we offer.

RüKTECH Polished:

RüKTECH Polished cermet coating is our brightest looking finish. It is similar in appearance to highly polished aluminum finish. This coating can withstand temperatures up to 1300°F and will reduce skin temps on pipes by about 30%. This coating can be applied inside and outside on headers and exhaust piping for a double layer of protection. This coating has a finish that needs to be maintained. You can clean it with soap and water, but be sure not to use anything extremely abrasive for cleaning. You can use any non-abrasive aluminum polish to bring out the shine if it ever gets dirty or dull. It also won't blue or turn gold like chrome or stainless finishes so long as it is within its operating temperatures you will enjoy a bright polished finish. This coating works great on normally aspirated engines and any parts that need to have a high quality finish. If you cannot access the parts that receive this coating for maintenance we

highly discourage getting the polished finish and would ask you to reconsider your other coating options.

Recommended Applications:

Naturally Aspirated 4 cylinder Exhaust
Naturally Aspirated 6 cylinder Exhaust
Naturally Aspirated V8 Exhaust
Hot Rod Headers and Exhaust Systems
Show Vehicle Headers and Exhaust Systems
Low boost Turbo applications Exhaust
Alcohol fueled vehicle Exhaust
Intake manifolds
Intake tubing
Charge tubing
Intercooler piping
Brackets
Any steel or aluminum substrate you want coated

RüKTECH Bright Silver:

RüKTECH Bright Silver cermet coating is available as the alternative to the RüKTECH polished finish. This coating isn't as reflective as the polished finish, but if you want a bright silver finish on your exhaust then this is the coating you want. It is formulated to withstand temperatures up to 1600°F and will reduce skin temps on pipes by about 35%. For many racers or performance applications this is one of the most used cermet coatings that we offer. This coating offers a maintenance free finish and is a desirable finish for racers. If you don't want to deal with the maintenance of the polished finish or you have a need for more heat management on your components than choose RüKTECH Bright Silver. This cermet coating is mostly used by our customers because of its higher heat capability and zero maintenance. RüKTECH Bright Silver is also frequently chosen as an upgrade on exhaust components that we sell in our store.

Recommended Applications:

The RüKTECH Bright Silver Cermet coating can be used on all RüKTECH Polished applications as well as:
Turbine Housings
Turbo Headers/manifolds

RüKTECH Black:

RüKTECH Black cermet coating is available in a velvet or semi gloss finish. It is formulated to withstand temperatures up to 1600°F and will reduce skin temps on pipes by about 35%. For

many racers or performance applications this is the most used cermet coating that we offer. This coating offers a maintenance free finish and is a desirable finish for racers. If you don't want to deal with the maintenance of the polished finish or you have a need for more heat management on your components than choose RüKTECH Black. This cermet coating is mostly used by our customers because of its higher heat capability and zero maintenance. RüKTECH Black is also frequently chosen as an upgrade on exhaust components that we sell in our store.

Recommended Applications:

The RüKTECH Black Cermet coating can be used on all RüKTECH Polished applications as well as:
Turbine Housings
Turbo Headers/manifolds

RüKTECH High Temp:

RüKTECH High Temp coating comes in a gray/silver metallic finish. RüKTECH High Temp is a protective coating that was originally designed to extend the wear life of components for gas turbine engines. It is formulated to withstand temperatures up to 2000°F. This coating reduces oxidation, erosion, corrosion, and metal fatigue. This specialized formulation increases efficiency of airflow, chamber compressibility, and reduces friction of a compressed air flow. This coating is ideal for turbo charged applications or high performance applications. This coating is continually tested under extreme conditions in the lab, on the street, and on the track. If the Rük Black doesn't fit your heat requirements or color liking, then go with RüKTECH High Temp coating for the higher heat rating and added performance benefits.

Recommended Applications:

The RüKTECH High Temp Cermet coating can be used on all RüKTECH Polished/RüKTECH Black applications, as well as:
Turbine Housings (highly recommended)
Turbo Headers/manifolds (Highly recommended)

RüKTECH Plasma:

RüKTECH Plasma is a wire-arc plasma spray that is formulated for very high temperatures. This rugged coating protects substrates up to 2450°F, heat levels encountered in racing and Off-road applications. Although it can withstand higher temperatures than the RüKTECH Black Cermet, it is not as good of an insulator at lower temperatures. For example, if your exhaust gas temps are running at 1300°F, the RüKTECH Black Cermet will reduce the skin temperatures on your pipes more than the RüKTECH Plasma Spray. Some turbo and racing applications see exhaust temps over the 1600°F which is the limit of RüKTECH Black Cermet, making the Rük Plasma the better choice for those applications. This coating has a semi-rough texture, and is available in Black only.

Recommended Applications:

The RüKTECH plasma coating can be used on all RüKTECH Polished/RüKTECH Black/RüKTECH High Temp applications, as well as:
Turbine Housings (highly recommended)
Turbo Headers/manifolds (Highly recommended)
Any exhaust application where extreme heat is being seen: (Off-road racing, turbo applications)

RüKTECH Black Body (Heat Dissipation):

RüKTECH Black Body is a heat dissipation coating that is designed to transfer heat away from the component/substrates it's applied to. RüKTECH Black Body increases thermal transfer on components/substrates by 35-40% over non coated components/substrates. By removing this heat you improve efficiencies and give the component that's coated a protection and longevity. This thermal conductive coating is ceramic bonded and helps prevent corrosion from solvents and chemicals that may and can come into contact with the coating. RüKTECH Black Body works best when the components that are coated see free flowing air. By increasing the thermal transfer on certain components you lower the operating temperatures and in turn create efficiencies and performance gains.

Recommended Applications:

Radiators
Oil Coolers
Transmission Coolers
Air Conditioning Condensers
Heat Exchangers
Transmission Cases
Differentials
Brake Drums

RüKTECH Internal Coating:

Lubritic Internal Coating: RüKTECH engine internal coatings are used extensively for high horsepower applications. The most important purpose of this coating is to create a surface that is protected against galling and other damage associated with metal to metal contact points. Taking away these contact points by coating one surface or both reduces damaging friction and heat which cost you horse power in an engine. This coating is designed to remove that friction and heat, increases component life for both contact surfaces, and increase power or motion on whatever it is applied to. RüKTECH coats pistons and engine bearings on top fuel dragsters in this coating to reduce friction and wear in a high horsepower atmosphere. The coating itself becomes part on the component that is coated. There is also no need to change tolerances with this coating because of how thin it is. This internal coating is a must have for any engine

builder. If you are a racer and the motor is torn apart every time it goes down the track or the shop that restores cars and rebuilds engines this coating is a must have.

Thermal Barrier Internal Coating: RüKTECH also coats the tops of its pistons in a thermal barrier coating to complete the overall piston protection in the motor. It is highly recommended that you do the tops of the pistons in a thermal barrier if you are getting the skirts done. The Thermal barrier on the top of the piston protects the piston from the environment that it is in… An explosive environment! The coating protects the piston itself from hot spots, and protects the rings from seeing a high amount of heat which reduces radial tension loss. Another plus is the coating increases flame propagation. Valves are another popular component to coat in a thermal barrier. We coat the faces of the valves to protect them from heat in the combustion chamber. The coating also helps to push the heat out with the exhaust which allows for less heat soak of the valves and attached components. We also offer coating the seated area of the exhaust valves. If we coat this area you will need to re-seat the valve. The last component we coat in a motor with a thermal barrier is the heads themselves. We can coat the combustion chamber as well as the exhaust ports to help protect the components from heat and to reduce heat soak of components in the motor. Piston tops, valves, combustion chambers, and exhaust ports complete the thermal barrier package in any motor that needs to reduce heat and increase power.

Recommended Applications:

LUBRITIC:
Piston Skirts
Cylinder walls
Bearings
Camshafts and Crankshafts
Valve Stems
Springs

THERMAL BARRIER:
Piston Tops
Valves
Combustion Chambers
Exhaust ports

RüKTECH Clear Coatings:

RüKTECH Clear coatings are used for many applications and decorative finishes to provide protection in many types of conditions. This coating has very good adhesion and is used a wide range of industrial applications as well as aftermarket applications. The coating is resistant to most solvents and cleaners as well. This means that whatever the RüKTECH Clear coating is applied to you can trust that you can clean it without worrying about ruining the finish. The biggest reason people use this coating is to keep items looking like new by protecting parts

from the elements and other environments it comes into contact with. It's very good for sealing metals such as aluminum, stainless steel, and brass. By coating these metals you seal the surface which eliminates the need for maintenance and the tiresome polishing that is needed to maintain the finish. If you don't want to keep polishing these metal surfaces get them coated with RüKTECH clear coatings.

RüKTECH High Temp Clear Coatings:

RüKTECH High Temp Clear Coat is an extremely clear coating that is applied on many surfaces and finishes to protect them from discoloration or oxidation. We use this coating on a performance level even though it is also applied to many parts in many industries. RüKTECH High Temp Clear has excellent bond strength to a variety of finishes and surfaces. This coating is resistance to solvents and cleaners and offers long lasting protection to whatever it is applied to. This coating is used heavily by RüKTECH for Wheels with any finish, aluminum components, stainless steel components/exhaust, brass, or any other polishable finish. This coating also has a high heat rating so you can apply this coating to polished stainless to protect the finish from oxidation. By applying RüKTECH High Temp Clear Coat you eliminate the need for re-polishing and labor intensive maintenance.

Clear Coat Finish Options:

Matte Finish
Satin Finish
Gloss Finish
High Gloss Finish
High Temperature Finish
Industrial or Construction Grade Finish

Recommended Applications:

Wheels with Any Finish
Polished Metals: Stainless Steel, Aluminum, Brass (Includes Stainless Exhaust Systems)
Powder Coated or Painted finishes
Any item on your vehicle you want protected for a lasting finish

RüKTECH Powder Coating:

RüKTECH Powder Coatings are extensively used in the auto and off road industry. Powder coating can be used to protect, and beautify almost anything you put it on. We currently use powder coating for off road vehicles, custom cars/trucks, ATV's/Motorcycles, and a wide range of components used in the automotive and off road industry. We have the ability to do car frames, ATV/Motorcycle frames, Roll Cages, etc. There is no job to big for our ovens. If you are looking for a specific color we are sure we can find a match for your project. We don't recommend powder for exhaust components or anything that sees a high amount of heat. You

can also put a protective layer of RüKTECH Clear Coat over the top of the powder coated finish to protect it from the sun and any damaging weather conditions.

Recommended Applications:

Decorative finishes
Automotive Accessories
ATV/Motorcycle Frames
Quads and Dune Buggies
Custom Color for Custom Cars and Trucks

Mandrel Bending:

For exhaust piping, a mandrel allows the exhaust pipes to be bent into smooth curves without undesirable creasing, kinking, or collapsing.
Having a CNC Mandrel bender at our disposal enables us to offer the best products for your race, or street vehicle.
We are able to build:
-Custom exhaust piping in almost any configuration
-Custom headers with minimal welds
-Custom built safety cages, for perfect fit, giving maximum space for movement
Pricing varies on each project. Custom bent tubing prices begin at $18 per bend, depending on material, set-up time, and difficulty.

Thermal Cutting:

Our Thermal Cutting services uses the latest Hypertherm equipment, which is 100% computer controlled for maximum precision. We have the ability to cut steel up to 2” thick in any pattern you require. It is ideal for flanges, brackets, and other metal works.
Please contact us for a quote, as every application is different.

Fabrication:

If you need something fabricated, or have an idea that you want to discuss with us, please feel free to contact us. We would be happy to work out a solution, or manufacture a custom or hard to find part that you are in need of.

Thank you for your time, and we look forward to working with you and serving your needs!

-The RüKTECH Team