



TUBE AND PIPE



Tube and Pipe Coatings

Quaker Houghton's Front to Back Solutions



Our Integrated "Front-to-Back" Approach: Metalworking Process Fluids and QUAKECOAT® Coatings for Optimized Aesthetics and Protection

Choosing Quaker Houghton tube & pipe coatings solutions benefits your business.

- **Solid experience:** We have the history, products, experts, and global presence to identify and solve your specific technical and business challenges
- **Depth of expertise:** We understand the processes and applications inside and out – and can provide improvements in both product technology and application optimization
- **Integrated process fluids:** We increase your productivity while ensuring process and chemical compatibility between the metalworking fluids and coatings
- **Product performance:** We maximize the capabilities of the coating chemistries with comprehensive application knowledge
- **Customized solutions:** Our tube and pipe team leverages our metalworking process fluids and coatings expertise and technology using global resources to provide personalized solutions at the local level
- **Global support:** We have worldwide labs to provide technical product support

Front-to-Back approach.

On the front end, our leading position in process fluids and specialty lubricants for steel mills provides synergies and benefits for pipe production. Further downstream, we lead the way with innovative metalworking fluids for higher performing pipe threading applications and finishing operations. At the back end, our QUAKECOAT® coatings can be tailored to meet increasing market performance demands.

Solvent Based Coatings

Conventional solvent based coatings often contain an alkyd resin and solvent diluents such as aromatics, ketones, alcohols, and other chemistries.

BENEFITS

- Established technology with a lower price per unit
- Storage and application at negative temperatures possible
- Tolerant of incoming substrate conditions

CHALLENGES

- Limitations on Volatile Organic Compound (VOC)
- Added costs associated with material handling
- Strong odors with health, safety, and environmental (HSE) concerns

QUAKECOAT® solvent based coatings have a high solids content, very good corrosion protection, relatively low VOCs, and fast drying properties. They can be applied using standard air spray or airless equipment as well as dip or brush application.

PRODUCTS

QUAKECOAT® 500 Series:

Solvent based alkyd coatings with very good corrosion protection



Water Based Coatings

Water based coatings use various resins and water as a diluent. The resin varieties can include water reducible, water dispersible, or emulsions.

BENEFITS

- Low to no VOC
- Multiple resin technologies depending on site requirements
- Positive HSE attributes with excellent performance

CHALLENGES

- Minimum temperature requirement for storage and transport
- Susceptible to incoming substrate conditions
- Need proper drying equipment for water removal

QUAKERCOAT® water based coatings provide corrosion protection with good to excellent properties of hardness, stain resistance, flexibility, and humidity resistance. They can be applied using standard dip, air spray, airless, or vacuum coater equipment or with brush and rollers.

PRODUCTS

QUAKERCOAT® 100-200 Series:

Water based acrylic, clear varnish coatings with low VOC, fast dry times, and good corrosion protection.

QUAKERCOAT® 300 Series:

Water based alkyd coatings with excellent corrosion protection, water resistance, salt spray, and outdoor resistance.

QUAKERCOAT® 700-900 Series:

Water based coatings with high solids content, fast dry times, and good to excellent corrosion protection which can be used with oven drying or induction heating.

Ultraviolet (UV) Curable Coatings

UV coatings are based on acrylate resins and monomer diluents which are instantly cured in the presence of high powered UV light.

BENEFITS

- 100% solids, VOC compliant
- Lower consumption and high application efficiency
- Instant curing eliminates most material handling damages

CHALLENGES

- Most sensitive to incoming substrate quality
- High initial investment
- Expertise needed for handling of product and equipment
- Customized formulation often required

QUAKERCOAT® UV coatings offer good to excellent hardness, impact resistance, adhesion, flexibility, and corrosion protection. These 100% solids coatings cure instantly, allowing for immediate handling and transfer of coated pipes.

PRODUCTS

QUAKERCOAT® 000 Series:

Acrylate based coatings with anti-corrosive properties, low viscosity for easy application, and fast curing.

Forward Together™

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