



**Q Gen-Next Sustainable Technology Pvt. Ltd.**

**High Performance Ceramic Coatings**

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# Cerolymer®150: Ceramic Composite Coating

- ❑ **Corrosion Protection has occupied the centre-stage now.**
- ❑ For any equipment, corrosion is a problem that causes the maximum damage and lowers the usable life.
- ❑ **Economic cost of corrosion of metals: Over USD \$300 Billion in the late nineties**
- ❑ With our expertise in Materials Science and Formulation, we're offering a solution based in Advanced Materials: **Ceramic Composite Coatings.**
- ❑ **This product has been covered by the Coatings and Anti-Corrosion Review as a High Performance Product.**



# Cerolymer®150: Ceramic Composite Coating

- ❑ **Cerolymer® Ceramic-Composite Coating has many unique features:**
  - ❑ Being Wear and Corrosion Resistant.
  - ❑ Good adhesion to metals, in general.
  - ❑ Having a uniform and smooth, lustrous surface on curing.
  - ❑ They have high ceramic content, which possesses a high resistance to most acids, alkalis and other corrosive chemicals.
  - ❑ The special formulation enables the coating to be applied on the surface with ease by trowelling or brushing.



# Cerolymer<sup>®</sup> -150: Ceramic Composite Coating

## Some Applications for Cerolymer<sup>®</sup> -150:

- ❑ Acid Manufacturing and storage
- ❑ Chemical Industry / Petro-chemical Industry / Surfactant Industry:
  - ❑ Any application such as storage, conveying, processing and handling of corrosive / harsh chemicals.
  - ❑ Chemical Tanks. Reactors and Vessels
  - ❑ Acid storage tanks and platforms
- ❑ Steel and Metal Processing Plants:
  - ❑ Surface Treatment Plants
  - ❑ Wear Resistance for conveying powdered coke
  - ❑ Wear Resistance for conveying powdered coal ash
  - ❑ Chute and Cyclone Liners for hard to reach areas
- ❑ Solvent manufacturers and Processors
- ❑ Bio-Diesel manufacturers
- ❑ Marine applications : for protection against corrosion from salt-water



# Project: Waste Water Neutralization Reactor



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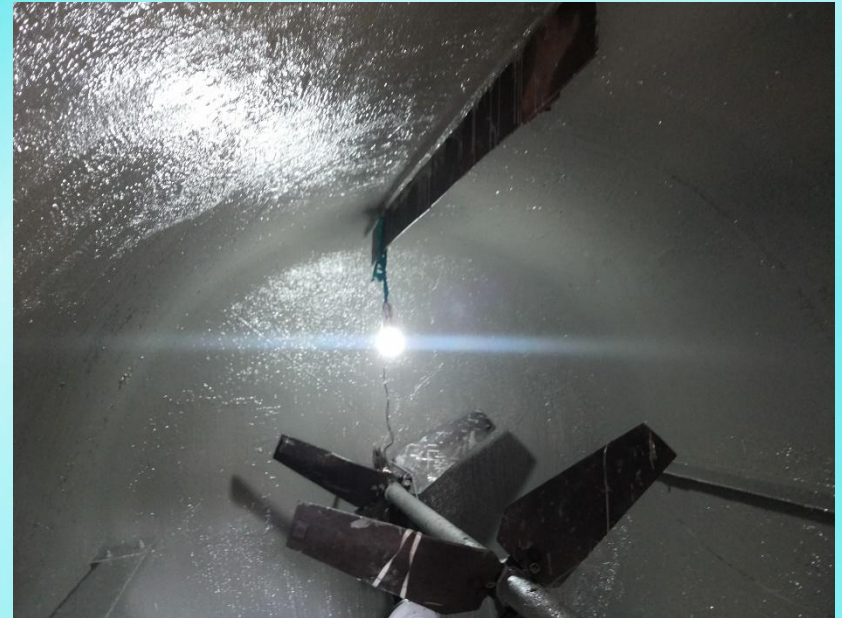
# Application Conditions

- ❑ The tank is used for neutralization of Acidic or Alkali Waste Water streams.
- ❑ The streams could be either Acidic or Alkaline, depending upon the source stream.
- ❑ The medium and the neutralization agent would change from batch to batch, depending on the streams.
- ❑ Alum would then be added for precipitation, which would cause wear and tear of the agitator and the reactor walls.
  
- ❑ The protective coating had to:
  - ❑ Deal with and be effective against a wide variety of mediums of differing nature.
  - ❑ Withstand the abrasive action of Alum added for precipitation
  - ❑ Be robust to handle the regular use and provide a good life to the reactor and agitator.

# Stages



Grit Blasted



Coating underway

# Final Coated Reactor



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# Project: Filtration Tank, Bio-diesel



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# Application Conditions

- ❑ The tank is used for keeping corrosive spent acid mixed with other solvents.
- ❑ The application temperature would be about 100°C~110°C
- ❑ The tank would occasionally see vacuum application
- ❑ The coating would need to be installed at site, in-situ.
  
- ❑ The protective coating had to:
  - ❑ Deal with and be effective against a acid and solvents
  - ❑ Withstand the acidic environment at the elevated temperatures
  - ❑ Be robust to handle the regular use and provide a good life to the tank.

# Stages



Surface Preparation

Coating underway

# Stages



- ❑ Application of the first coat.



- ❑ Surface preparation for the top coat.

# Other projects

## *Some International Client Applications:*

- ❑ Acid-Proof Lining, Nigeria
- ❑ Materials Science Company: USA.

## *Some Domestic Client Applications:*

- ❑ Acid storage and discharge
- ❑ Acid Filtration Filter Body
- ❑ Acidic Fumes Scrubbing
- ❑ Base Layer for surface protection in installation of ceramic liners.

**THANKS FOR YOUR TIME**