



**PINTURAS AYA**

# Wastewater Treatment Facility



**GSPC**  
*Heavy Industrial  
& Marine Coatings*



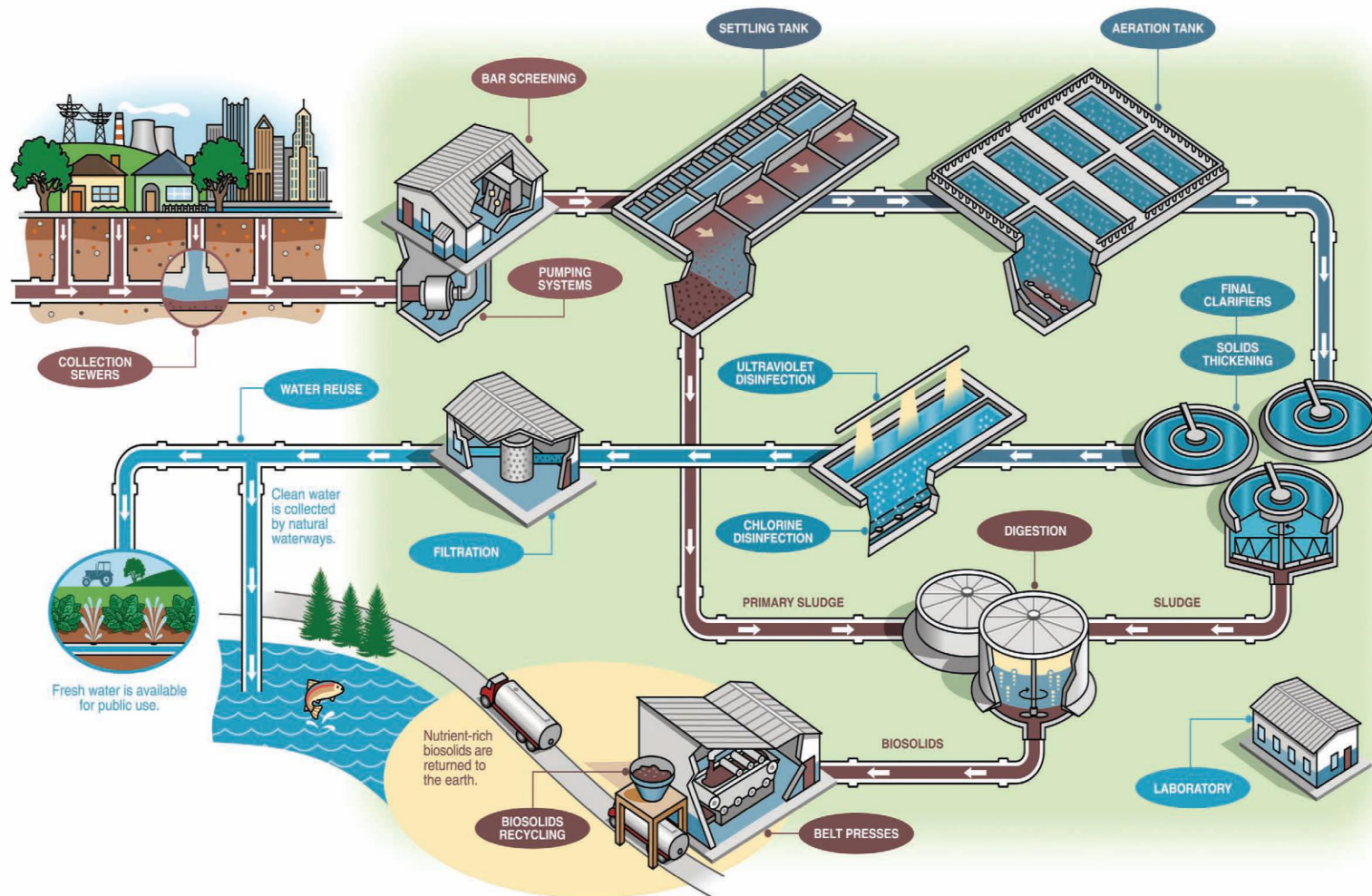
**NACE**  
INTERNATIONAL

**SSPC**  
Corporate  
Member





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Choosing coating systems is one of the most critical phases of creating and maintaining a wastewater treatment facility. Due to the abrasiveness of the treatment process—it's necessary to protect all facility components with a powerful and resilient barrier. Poor protection will jeopardize reliability of the facility and lead to unsafe conditions, poor quality and greater expenses. **Disaster can happen at any stage.** Some of the most potent biogenic gases present within the plant include hydrogen sulfide, carbon dioxide and methane. When introduced to water, hostile compounds are produced. Protective coatings must be able to resist this penetration and acidic nature. When coatings fail, biogenic gases permeate the substrate and corrode a facility. Particularly in stationary or enclosed areas, a higher concentration of aggressive compounds accumulates. Such build up demands an even more forceful coating system. In addition to chemical and biological abuse, the facility is subject to abrasion and impact from the mechanical separation process, which is why coating systems selected for these processes should have the abrasion and impact resistance that Pinturas AYA Coatings offer. **Pinturas AYA** has protection for every stage. Our Municipal Wastewater Operations Guide illustrates which type of protection you need at every stage of the wastewater treatment process. **Pinturas AYA** high performance coatings are known for resiliency under the most demanding conditions and guarantee optimal protection. To learn more about our line of high-performance, heavy-duty protective coating, visit us at [www.pinturasaya.info](http://www.pinturasaya.info)



## A high performance, heavy-duty barrier where it matters most

|                  | Collective Sewers                                                                                                  | Pumping Systems                                                                                                                          | Bar Screens                                                                                                                    | Settling Tanks                                                                                                                    | Aeration Tanks                                                                                                                           | Final Clarifiers                                                                                                                  | Chlorine Disinfection                                                                                                                                     |
|------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maintenance      | Steel – 2 coats of Ayapoxi 100 ENF at 16-20 mils per coat                                                          | Steel – 2 coats of Ayapoxi 83TL at 8-10 mils per coat                                                                                    | Steel – 2 coats of Ayapoxi 85 at 8-10 mils per coat                                                                            | Steel – 1 coat of Ayapoxi 100 ENF at 16-20 mils                                                                                   | Steel – 2 coats of Ayapoxi 83 TL at 8-10 mils per coat                                                                                   | Steel – 2 coats of Ayapoxi 83 TL at 6-8 mils per coat + stripe coat                                                               | Steel – 1 coat of Ayapoxi 100 ENF at 16-20 mils                                                                                                           |
|                  | Concrete – 1 coat of Ayapoxi 100 PS + 2 coats of Ayapoxi 100 ENF at 16-20 mils per coat                            | Concrete – 1 coat of Ayapoxi 100 PS + 2 coats of Ayapoxi 83TL at 8-10 mils per coat                                                      |                                                                                                                                | Concrete – 1 coat of Ayapoxi 100 PS + 1 coat of Ayapoxi 100 ENF at 16-20 mils                                                     | Concrete – 1 coat of Ayapoxi 100 PS + 2 coats of Ayapoxi 83TL at 8-10 mils per coat                                                      | Concrete – 2 coats of Ayapoxi 83TL at 8-12 mils per coat; fill surface voids with Ayapoxi 100ME                                   | Concrete – 1 coat of Ayapoxi 100 PS + 2 coats of Ayapoxi 83TL at 8-10 mils per coat*                                                                      |
|                  | Deteriorated Concrete – 1 coat of Ayapoxi 100 PS + 1 coat of Ayapoxi 100A + 1 coat of Ayapoxi 100 ENF at 8-12 mils | Deteriorated Concrete – 1 coat of Ayapoxi 100 PS + 1 coat of Ayapoxi 100A at 80-125 mils + 2 coats of Ayapoxi 83TL at 8-10 mils per coat |                                                                                                                                | Deteriorated Concrete – 1 coat of Ayapoxi 100 PS + 1 coat of Ayapoxi 100A at 80-125 mils + 1 coat of Ayapoxi 100 ENF at 8-12 mils | Deteriorated Concrete – 1 coat of Ayapoxi 100 PS + 1 coat of Ayapoxi 100A at 80-125 mils + 2 coats of Ayapoxi 83TL at 8-10 mils per coat | Deteriorated Concrete – 1 coat of Ayapoxi 100 PS + 1 coat of Ayapoxi 100A at 80-125 mils + 1 coat of Ayapoxi 83TL at 8-12 mils    |                                                                                                                                                           |
| New construction | Steel – 2 coats of Ayapoxi 100ENF at 16-20 mils per coat                                                           | Steel – 2 coats of Ayapoxi 83TL at 8-10 mils per coat                                                                                    | Steel – 2 coats of Ayapoxi 85 at 8-10 mils per coat                                                                            | Steel – 1 coat of Ayapoxi 100 ENF at 16-20 mils                                                                                   | Steel – 2 coats of Ayapoxi 83 TL at 8-10 mils per coat                                                                                   | Steel – 2 coats of Ayapoxi 83 TL at 6-8 mils per coat + stripe coat                                                               | Steel – 1 coat of Ayapoxi 100 ENF at 16-20 mils                                                                                                           |
|                  | Concrete – 1 coat of Ayapoxi 100 PS + 2 coats of Ayapoxi 100 ENF at 16-20 mils per coat                            | Concrete – 1 coat of Ayapoxi 100 PS + 2 coats of Ayapoxi 83TL at 8-10 mils per coat                                                      |                                                                                                                                | Concrete – 1 coat of Ayapoxi 100 PS + 1 coat of Ayapoxi 100 ENF at 16-20 mils                                                     | Concrete – 1 coat of Ayapoxi 100 PS + 2 coats of Ayapoxi 83TL at 8-10 mils per coat                                                      | Concrete – 2 coats of Ayapoxi 83TL at 8-12 mils per coat; fill surface voids with Ayapoxi 100ME                                   | Concrete – 1 coat of Ayapoxi 100 PS + 2 coats of Ayapoxi 83TL at 8-10 mils per coat*                                                                      |
|                  |                                                                                                                    |                                                                                                                                          |                                                                                                                                |                                                                                                                                   |                                                                                                                                          |                                                                                                                                   |                                                                                                                                                           |
|                  | UV Disinfection                                                                                                    | Final Filtration Systems                                                                                                                 | Water Re-use Storage                                                                                                           | Solids Processing                                                                                                                 | Digestion Processes                                                                                                                      | Solids Dewatering                                                                                                                 | *Depending on the level of chlorination, the concrete may need an alternative system: 1 coat of Ayapoxi 100 PS + 1 coat of Ayapoxi 100 ENF at 16-20 mils. |
| Maintenance      | Steel – 2 coats of Ayapoxi 83 TL at 10-12 mils per coat                                                            | Steel – 2 coats of Ayapoxi 83 TL at 6-8 mils per coat + stripe coat                                                                      | Steel – 2 coats of Ayapoxi 83 TL at 6-8 mils per coat + stripe coat                                                            | Steel – 1 coat of Ayapoxi 100 ENF at 16-20 mils                                                                                   | Steel – 2 coats of Ayapoxi 100 ENF at 10-16 mils per coat                                                                                | Steel – 1 coat of Ayapoxi 100 ENF at 16-20 mils                                                                                   |                                                                                                                                                           |
|                  | Concrete – 1 coat of Ayapoxi 100 PS + 2 coats of Ayapoxi 83TL at 10-12 mils per coat                               | Concrete – 2 coats of Ayapoxi 83TL at 8-12 mils per coat; fill surface voids with Ayapoxi 100ME                                          | Concrete – 2 coats of Ayapoxi 83TL at 8-12 mils per coat; fill surface voids with Ayapoxi 100ME                                | Concrete – 1 coat of Ayapoxi 100 PS + 1 coat of Ayapoxi 100 ENF at 16-20 mils                                                     | Concrete – 1 coat of Ayapoxi 100 PS + 1 coat of Ayapoxi 100 ENF at 16-20 mils                                                            | Concrete – 1 coat of Ayapoxi 100 PS + 1 coat of Ayapoxi 100 ENF at 16-20 mils                                                     |                                                                                                                                                           |
|                  |                                                                                                                    | Deteriorated Concrete – 1 coat Ayapoxi 100 PS + 1 coat Ayapoxi 100A at 80-125 mils + 1 coat Ayapoxi 83TL at 8-12 mils                    | Deteriorated Concrete – 1 coat of Ayapoxi 100 PS + 1 coat of Ayapoxi 100A at 80-125 mils + 1 coat of Ayapoxi 83TL at 8-12 mils | Deteriorated Concrete – 1 coat of Ayapoxi 100 PS + 1 coat of Ayapoxi 100A at 80-125 mils + 1 coat of Ayapoxi 100 ENF at 8-12 mils | Deteriorated Concrete – 1 coat of Ayapoxi 100 PS + 1 coat of Ayapoxi 100A at 80-125 mils + 1 coat of Ayapoxi 100 ENF at 8-12 mils        | Deteriorated Concrete – 1 coat of Ayapoxi 100 PS + 1 coat of Ayapoxi 100A at 80-125 mils + 1 coat of Ayapoxi 100 ENF at 8-12 mils |                                                                                                                                                           |
| New construction | Steel – 2 coats of Ayapoxi 83TL at 10-12 mils per coat                                                             | Steel – 2 coats of Ayapoxi 83 TL at 6-8 mils per coat + stripe coat                                                                      | Steel – 2 coats of Ayapoxi 83 TL at 6-8 mils per coat + stripe coat                                                            | Steel – 1 coat of Ayapoxi 100 ENF at 16-20 mils                                                                                   | Steel – 2 coats of Ayapoxi 100 ENF at 10-16 mils per coat                                                                                | Steel – 1 coat of Ayapoxi 100 ENF at 16-20 mils                                                                                   |                                                                                                                                                           |
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## PINTURAS AYA

**AYAPOXI 83 TL** Universal Epoxy Coating AYAPOXI 83TL is a surface-tolerant, direct-to-metal universal epoxy. It is a much superior high-film build (up to 12 mils in single coat) and provides optimal corrosion protection in immersion, non-potable and corrosive chemical environments. Best for use with immersion surfaces as well as for exterior protection, it can be applied down to 40°F and cures down at 32°F. It offers excellent edge coverage (75% compared to the typical 25% with other coatings), meaning less strip coating is required.

**AYAPOXI 100 ENF** Amine-Cured Phenolic Epoxy Coating AYAPOXI 100 ENF is a single-coat, solvent-free phenolic epoxy that is resistant to severe H<sub>2</sub>S, chemicals and heavy abrasion environments. It offers excellent resistance against a wide range of chemicals and solvents and is optimal for surfaces that are exposed to hydrogen sulfide.

**AYAPOXI 100 PS** Solvent-Free Epoxy AYAPOXI 100 PS adheres to aged coatings. It is compatible with many older coatings as well as damp substrate and can be used as a concrete-curing compound.

**AYAPOXI 100A** Spray-On Epoxy Surface AYAPOXI 100A is a spray-applied, reinforced epoxy surface for use in severe immersion and H<sub>2</sub>S environments.

**AYAPOXI 85** Abrasion Resistant Epoxy Coating AYAPOXI 85 protects surfaces against unusual abrasive conditions, immersion environments and chemicals.

**AYAPOXI 100 ME** Epoxy Filler Compound AYAPOXI 100 ME is a 100% solid epoxy-filler compound that fill pits, voids or seams in steel and concrete water tanks. It forms concrete or concrete blocks up to one inch across as measured in their largest dimension. A single application will fill or seal most air bubbles and holes.

