TECHNICAL DATA SHEET

Product Data Sheet · Revision: November 2026

PRETREATMENT

Dip Pretreatment Systems

Dip pretreatment fully immerses parts in sequential chemical and rinse tanks, giving complete access to every surface, internal cavity and hidden geometry — degreasing, rinsing, phosphating or nano-ceramic conversion coating and drying to deliver superior adhesion and corrosion resistance before powder coating and enamel.

Open online

strong3000.com/en/products/pretreatment-dip/



KEY FIGURES

Process	Chemistry	Tank material	Handling
Dip tank series	**Degrease, phosphate / nano-ceramic, rinses**	**Stainless / PP (depending on chemistry)**	**Hoist / conveyor integration**

OVERVIEW

Complete Access Through Immersion.

Dip pretreatment immerses parts in a series of tanks: degrease → rinse → phosphate / nano-ceramic → rinse → dry. Full immersion coats even internal surfaces, bore interiors and complex profiles that spray cannot reach, making it a superior solution for hollow and intricate geometries.

It is ideal for hollow sections, welded chassis parts and deep-pocketed components. Engineered to integrate with STRONG3000 powder coating lines and ovens, tank count, volume and chemistry are configured to the part and the corrosion class.



KEY BENEFITS

Preparation That Reaches Every Surface.

Full Immersion

Complete chemistry coverage of cavities and hidden surfaces.

Nano-Ceramic Option

Low-temperature, heavy-metal-free modern conversion coating.

Complex Geometry

Ideal for hollow sections and intricate parts.

Uniform Result

Consistent corrosion resistance and adhesion across all surfaces.

GALLERY

Take a Closer Look.



TECHNICAL SPECIFICATIONS

Dip Pretreatment — Technical Specifications.

Values are typical ranges; final values are confirmed per project by STRONG3000 engineering.

Process	Dip tank series
Chemistry	Degrease, phosphate / nano-ceramic, rinses
Tank material	Stainless / PP (depending on chemistry)
Handling	Hoist / conveyor integration

THE WHOLE SYSTEM

Order of the Powder Coating Line.

Dip pretreatment is the first step of the line: this is where the part surface is prepared for coating.

1

You are here

PRETREATMENT

Dip Pretreatment Systems

Parts are fully immersed in successive tanks, so inner surfaces and pipe interiors are pretreated too.

2



Water and moisture left on wet parts from pretreatment are driven off before coating (typically ~100–160 °C).

Explore →

3



POWDER APPLICATION

PVC Powder Coating Booths

Powder is applied to the part by automatic guns; powder that does not stick is recovered by the mono-cyclone.

Explore →

4



The powder melts, flows and cures hard at ~160–200 °C.

Explore →

WHY STRONG3000?

The Engineering Difference.

We don't sell equipment and walk away; we stay with your line from design through commissioning and beyond.

Integrated Engineering

Machinery, electrical, automation and software under one roof — not sourced and assembled.

In-House Technology

Smart AI and OWL are original STRONG3000 technologies developed in-house.

Proven Experience

25+ years of engineering; installation, commissioning and service in 40+ countries.

24/7 Support

Phone, remote connection and 24/7 live support via WhatsApp.

Quotes & Technical Consulting

Tell us about your part, capacity and process. A STRONG3000 engineer will get back to you with a tailored proposal.

Production Center	Ömerli Mah. Elektro 2000 Sanayi Sitesi B18 Blok, Tunaboyu Sk. No:1AZ, 34555 Arnavutköy / Istanbul, Türkiye
Phone	+90 212 438 56 94 · +90 534 037 98 10
E-mail	info@strong3000.com
24/7 WhatsApp	+90 537 353 54 19
Web	strong3000.com/en/products/pretreatment-dip/

FOR A QUOTE, PREPARE

- Product to Be Coated
- Max. Part Dimensions
- Required Capacity
- Number of Colors
- Daily Color Changes
- Coating Process
- Project Timeline

Values are typical ranges; final values are confirmed per project by STRONG3000 engineering. This sheet summarises the product page on our website; scan the QR code for the latest information.