H-890 Catalyst

Overview

H-890 is a catalyst designed for use in silicone polymer emulsion systems, where it promotes the formation of a water- and oil-repellent coating on various substrates.
It is primarily applied to paper, molded pulp, and other substrates requiring hydrophobic and oleophobic performance.

Key Advantages

- Compatible with various coating machines
- Fast curing
- Excellent bath stability
- Strong adhesion to different substrates
- Versatile, general-purpose product

Physical Properties

Property	Typical Value	Unit / Note
Appearance	Milky white liquid	—
Solid content	Approx. 41	%
pH	Approx. 4	—
Emulsion type	Non-ionic	—
Dilution	Cold water	—

Applications

H-890 is used as a catalyst for water and oil repellency in:

- Paper (e.g., food packaging paper, industrial packaging, specialty paper)
- Molded pulp (spray coating)
- Other substrate packaging materials requiring water and oil resistance

Instructions for Use

SIO-7893 should be used together with H-890catalyst .

Typical formulation:

- SIO-7893 …… 100 parts
- H-890 …… 2–5 parts
- Dilution water …… Adjust to target solid content

Bath preparation:

- Slowly add dilution water into SIO-7893 under medium-speed stirring, maintaining constant agitation.
- Add H-890 and other desired additives afterward.
- The combination of SIO-7893 and H-890 contains only substances currently approved for food contact (as listed in BGVV Chapters XVA–XXXVI and FDA CFR 21 Parts 175.300, 176.170, and 178.3400).

Notably,this formulation does not contain alkylphenol ethoxylate (APE)-based surfactants.

Packaging

H-890 is typically supplied in 25 kg plastic drums.

Storage and Shelf Life

Store H-890 in its original sealed container at +2°C to +30°C.
Under these conditions, the product has a shelf life of 12 months.
The expiration date (“Month–Year”) is clearly indicated on each container label.
After the indicated date, the product quality is no longer guaranteed.