

Poly methylsilsesquioxane Full-Scenario Common Fault Troubleshooting Guide

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I. Raw Material Source Troubleshooting

1.1 Defects of Synthetic Basic Raw Materials

Fault Manifestations

Core performance including coating abrasion resistance, weather resistance, hydrophobicity, anti-sticking and hardening drops drastically; liquid resin turns turbid and delaminates, powder becomes off-white gray with granular black dot impurities; solid content, viscosity, silanol content and hardness fluctuate significantly across batches; loss of gloss, haze, pinholes and bubbles appear on coatings after paint mixing; coatings rapidly lose water resistance and boiling water resistance after curing, prone to scratch whitening; gel caking and sharp viscosity surge occur after long-term storage; third-party testing fails siloxane content, residual alkoxy groups, free methanol, water, heavy metal and volatile matter indicators.

Troubleshooting Key Points

Insufficient purity of methyltrialkoxysilane raw materials containing impurities such as dimethyldialkoxysilane and tetrafunctional silane disrupt crosslinking molecular structures; excessive residual methanol and ethanol in raw materials cause incomplete hydrolysis and condensation with excessive silanol residues; water and inorganic salt impurities in raw materials trigger spontaneous pre-polymerization with excessively broad molecular weight distribution; residual iron and heavy metal ions in raw materials catalyze continuous polycondensation of silanol groups, leading to viscosity rise and premature gelation during storage; long-term open storage of raw materials absorbs atmospheric moisture to trigger spontaneous hydrolysis and form coarse agglomerated particles, generating pockmarks on coatings.

Incoming Inspection Quality Control

Quantitative detection of monomer impurities via GC gas chromatography; testing of finished product solid content, viscosity, silanol value, residual alkoxy groups; observation of clarity and low-temperature storage stability; screening of water content, free small molecular alcohols and volatile matter; heavy metal limit testing; comparative retest of coating hardness, hydrophobicity and abrasion resistance against reference samples.

Control Scheme

Adopt high-purity methyltrimethoxysilane / methyltriethoxysilane monomers, strictly control difunctional and tetrafunctional silane impurities, water content and heavy metals; precisely stabilize feeding monomer purity to form uniform cage / ladder molecular structures of silsesquioxane; reject raw materials with turbidity, excessive alcohol residues and easy agglomeration to guarantee uniform crosslink density and stable abrasion & hydrophobic performance of finished products.

1.2 Defects of Auxiliaries for Hydrolysis, Condensation, Neutralization & Purification

Fault Manifestations

Excessive residual metal ions and salts in hydrolysis catalysts, acid & alkali neutralization additives lead to excessive ash content and metal impurities in finished products; incomplete removal of catalysts leaves trace metals that continuously catalyze silanol polycondensation, causing viscosity surge and gel scrapping during storage; unbalanced neutralization ratio leaves free acid and alkali in the system, inducing long-term hydrolysis gloss loss and whitening of coatings; repeated recycling of hydrolysis solvents accumulates low-molecular siloxane impurities and drastically reduces coating boiling water resistance and weather resistance; colored impurities introduced by auxiliaries turn resin yellow, rendering it unfit for high-transparency high-gloss topcoats.

Troubleshooting Key Points

Sodium, iron metal ions contained in acid/alkali catalytic auxiliaries accelerate intermolecular polycondensation of silanol groups; insufficient water washing and neutralization stratification trap inorganic salts inside resin; recycled alcohol solvents accumulate low oligomers and reduce coating boiling water resistance and weather resistance.

Control Scheme

Adopt refined hydrolysis and neutralization auxiliaries with low heavy metal content, precisely adjust the system to stable neutral range; implement multi-stage water washing to remove catalysts, salts and small molecular alcohol

impurities, stabilize crosslink skeleton of methylsilsesquioxane and reduce risks of storage gelation and coating hydrolysis whitening.

1.3 Defects of Decolorization, Filtration & Desolvent Purification

Fault Manifestations

Incomplete decolorization by activated carbon leads to severe resin yellowing and heavy haze in high-transparency coatings; insufficient filter element precision leaves coarse siloxane agglomerated particles and inorganic salt impurities, covering sprayed coatings with granular pockmarks; out-of-control vacuum desolvent temperature and vacuum degree cause excessive loss of low-molecular abrasion-resistant components, drastically reducing coating hardness and abrasion resistance; impure water for water washing purification leaves trace metal ion residues, leading to continuous thickening of finished products during shelf life.

Troubleshooting Key Points

Saturated adsorption of decolorizing fillers fails to remove colored oxidized impurities; aged or damaged filter elements incompletely intercept high-molecular agglomerated particles; excessively high desolvent temperature causes massive volatilization loss of low-molecular active silicon components.

1.4 Defects of Oxygen-Isolation Constant-Temperature Sealed Protection

Fault Manifestations

Methylsilsesquioxane molecules contain abundant silanol groups with prominent water and heat sensitivity. Silanol groups undergo continuous polycondensation under high temperature, open operation and high humidity environment; resin viscosity rises steadily with local gel caking; coating hardness and hydrophobicity gradually decay; open storage absorbs water vapor to trigger system stratification and white flocculent silanol precipitates; huge crosslink density differences across batches cause obvious fluctuations in abrasion and weather resistance of coated finished products.

II. Troubleshooting of Process Faults in Hydrolysis Condensation, Neutralization Desolventization & Filtration Filling

2.1 Out-of-Control Hydrolysis Condensation & Molecular Rearrangement Process

Fault Manifestations

Unbalanced hydrolysis temperature, pH, water-material ratio and reaction duration cause incomplete hydrolysis with abundant residual alkoxy groups, leading to slow coating curing and poor water resistance; excessively high reaction temperature triggers over-condensation to form oversized molecular agglomerates, resulting in turbid resin and abundant coating particles after

spraying; excessively low temperature leads to insufficient hydrolysis and condensation with excessive silanol groups, prone to gelation during storage; uneven stirring flow causes unbalanced local hydrolysis rate and inconsistent molecular weight distribution width; excessive catalyst dosage leaves residual acid and alkali in the system, inducing long-term coating hydrolysis and gloss loss.

Optimization Scheme

Adopt segmented low-temperature sealed temperature-controlled hydrolysis and condensation process, precisely control feeding ratio of water and silane to balance silanol content and crosslink density; suppress over-polycondensation and coarse particle generation under low temperature; remove small molecular alcohols and water via gradient vacuum, implement full-process nitrogen oxygen-isolation protection to lock uniform ladder / cage molecular structures, balancing high hardness, hydrophobic abrasion resistance and storage stability.

2.2 Defects of Water Washing Neutralization, Decolorization Desolventization & Impurity Removal Process

1. Failed water washing neutralization: Incomplete removal of free catalysts, inorganic salts and unreacted alcohol leaves excessive metal ions and ash content in finished products, triggering continuous thickening and gelation via silanol polycondensation during storage; residual trace water accelerates self-polymerization of silanol groups and generates pinholes and bubbles during coating baking.
2. Incomplete decolorization and desolventization: Residual colored impurities and coarse low-poly siloxane turn resin yellow and turbid, producing haze particles on high-gloss transparent coatings; excessive removal of low-molecular abrasion-resistant components drastically reduces coating hardness and abrasion resistance.
3. Out-of-control impurity removal filtration: Incomplete interception of agglomerated siloxane micro-particles and carbon powder impurities leads to frequent pockmark and particle defects on sprayed workpieces.

2.3 Malfunctions in Constant-Temperature Maturation, Precision Filtration & Sealed Filling Process

Fault Manifestations

High temperature and open storage in maturation tanks trigger continuous silanol polycondensation, sharp viscosity surge and local gel caking; insufficient maturation time results in uneven molecular distribution and

obvious fluctuations in coating hardness and hydrophobic effect across batches; failed terminal precision filtration leaves tiny agglomerated particles to generate coating particle defects after spraying; high temperature, high humidity and open operation in filling workshop cause resin water vapor absorption and secondary hydrolysis precipitates; aged high-viscosity gel resin accumulated in filling pipelines causes cross-contamination of batch performance.

III. Full-Link Troubleshooting of Packaging, Storage & Logistics

3.1 Defects of Package Sealing, Oxygen & Moisture Barrier

Fault Manifestations

Ordinary plastic barrels are permeable to water vapor and air, leading to resin water absorption hydrolysis, silanol polycondensation, thickening and gelation; packages without light protection induce slight siloxane bond cleavage under long-term light exposure and reduce coating weather resistance; ordinary rubber gaskets are swelled and precipitated by silicon resin, causing coating gloss loss and stratification after paint mixing; incompletely sealed large barrels prioritize thickening of surface resin via polycondensation, creating inconsistent viscosity and hardness indicators between barrel top and bottom materials.

Control Scheme

Adopt light-proof high-barrier HDPE sealed barrels resistant to silicon resin, fully seal after filling, and fill with nitrogen for high-end specifications to isolate water vapor and oxygen, block self-polymerization paths of silanol groups, and stably maintain viscosity, silanol content and coating performance over long periods.

3.2 Abnormal Storage Environment Control

Standard storage conditions: Cool constant-temperature sealed warehouse with temperature 10–30°C, dry low-humidity ventilated storage room; strictly prohibit storage above 35°C, freezing below 0°C and open-air strong light stacking; prohibit mixed storage with strong acids, strong alkalis, water-containing solvents and metal catalytic materials, keep away from heat sources and steam pipelines.

Fault Manifestations

Storage temperature above 30°C doubles silanol polycondensation rate, leading to steady resin viscosity rise and high risk of gel scrapping; temperature below 5°C precipitates flocculent turbidity of high-molecular siloxane, causing poor dispersion and abundant coating particles after paint mixing; high-humidity warehouse environment generates condensed water on

barrel walls, triggering resin water absorption hydrolysis and drastically reducing storage stability; mixed storage with acid, alkali and metal materials rapidly catalyzes polycondensation and invalidates resin within a short period; large day-night temperature differences form repeated condensed water on inner barrel walls, accumulating water to induce stratification and precipitation.

3.3 Damages During Logistics Transportation

High-temperature exposure in carriage accelerates silanol polycondensation of resin, causing sharp viscosity surge and abrasion resistance loss; low-temperature transportation without thermal insulation precipitates turbid flocs of high-molecular components, leading to poor dispersion after delivery paint mixing; extrusion damage and leakage of packages trigger secondary hydrolysis and agglomeration upon contact with water vapor and dust; loose barrel cover sealing during long-distance bumpy transportation allows air and water intrusion, inducing rapid resin thickening and gelation.

IV. Troubleshooting of Faults Across Full Industry Application Scenarios

4.1 Plastic & Hardware Abrasion-Resistant Clear Coat, High-Gloss Topcoat Scenarios

Common Faults

Insufficient coating hardness, easy scratching and low abrasion resistance; poor coating hydrophobicity with residual water stain whitening; haze loss of gloss and abundant tiny granular pockmarks on transparent topcoats; pinholes, bubbles and craters formed after baking curing; short-term outdoor gloss loss, cracking and boiling water whitening of coatings; obvious differences in coating hardness and gloss across batches.

Troubleshooting Key Points

Insufficient crosslink density and excessive silanol groups in finished products form loose 3D networks with poor abrasion resistance; unfiltered coarse resin agglomerated particles generate pockmarks after spraying; residual methanol and water in resin volatilize under baking heat to form pinholes and bubbles; excessive polycondensation during storage creates over-viscous resin with poor dilution and dispersion after paint mixing; improper baking temperature (too high or too low) causes incomplete siloxane crosslink curing.

4.2 Powder Coating & High-Temperature Resistant Silicon Coating Scenarios

Common Faults

Poor melt leveling of powder, orange peel and pinholes on coating surface; coating chalking and abrasion shedding after high-temperature baking; weak hydrophobic anti-fouling effect with difficult wiping of oil stains; powder agglomeration and caking during storage leading to uneven discharge during

spraying; rapid cracking and weather resistance failure under high-temperature working conditions.

Troubleshooting Key Points

Excessive removal of low-molecular resin components leads to insufficient melt fluidity; unbalanced silanol content causes low crosslink density and deteriorated high-temperature & abrasion resistance; inorganic salt impurities contained in resin decompose under high temperature to form pinholes and bubbles; high-humidity environment during powder compounding triggers premature resin hydrolysis and agglomeration.

4.3 Paper, Leather & Fabric Hydrophobic Hand-Feel Coating Scenarios

Common Faults

Weak coating waterproof hydrophobic effect with rapid liquid penetration into substrates; dry brittle film without smooth silicon hand feel; white dot and flocculent particles formed after coating; coating shedding and boiling water resistance failure after high-temperature setting; obvious differences in waterproof performance and hand feel across batches.

Troubleshooting Key Points

Excessively broad resin molecular weight distribution with insufficient low hydrophobic active components; unfiltered resin agglomerated particles form white dot impurities after coating; high-temperature setting induces slight siloxane degradation and attenuated waterproof performance; acid and alkali auxiliaries in the system catalyze resin hydrolysis and poor long-term stability.

4.4 Electronic Insulation, Flame-Retardant High-Temperature Resistant Protective Coating Scenarios

Common Faults

Low coating insulation resistance and failed insulation protection; bubbles and pores formed after high-temperature baking reducing high voltage resistance; poor coating adhesion with cracking and shedding under cold-heat cycling; whitening and electric leakage after moisture and boiling water resistance testing; fluctuating insulation and high-temperature resistance performance across batches.

Troubleshooting Key Points

Residual water and small molecular alcohol in resin volatilize under high temperature to form pores; residual metal ion impurities reduce insulation performance; insufficient crosslink density leads to poor thermal stability under high temperature; resin hydrolysis during storage destroys the integrity of siloxane backbone.

4.5 Mold Release, Anti-Sticking Isolator & Inorganic Filler Surface Treatment Scenarios

Common Faults

Uneven mold release film thickness with local mold sticking; poor anti-sticking effect with wire drawing residues on product surfaces; incomplete filler coating leading to powder agglomeration and poor dispersion; rapid degradation of mold release layer under high-temperature working conditions and loss of anti-sticking activity; short-term turbidity and precipitation after liquid compounding of the system.

Troubleshooting Key Points

Unbalanced resin silanol ratio causes poor miscibility with substrates and fillers; coarse siloxane particles lead to uneven dispersion; high-temperature environment accelerates siloxane degradation and attenuated mold release anti-sticking activity; water-containing solvents in the system induce secondary hydrolysis precipitation of resin.

V. Troubleshooting Module for Abnormal Physical & Chemical Indicators

5.1 Unqualified Judgment of Core Efficacy Indicators

Causes of Attenuated Abrasion Resistance, Hydrophobicity, High-Temperature Resistance & Crosslink Curing Performance

Unbalanced hydrolysis condensation reaction ratio leading to out-of-control silanol and alkoxy residual content and insufficient molecular crosslink density; inadequate desolventization and filtration purification enrich coarse agglomerated particles and inorganic salt impurities; high-temperature synthesis and high-temperature storage induce continuous self-polycondensation of silanol groups and unbalanced molecular structure; water, metal, acid and alkali impurities catalyze siloxane bond hydrolysis and polycondensation, losing core functions of high hardness, hydrophobic anti-fouling and high-temperature insulation resistance.

Qualified Judgment Standard (Industrial Coating Grade Methylsilsesquioxane)

Liquid products are colorless to pale yellow transparent liquid; powder products are uniform fine white powder without gel, coarse particles or layered flocculent precipitates; siloxane effective solid content meets specifications, residual alkoxy groups $\leq 1.0\%$, free methanol $\leq 0.5\%$, water $\leq 0.15\%$, silanol content within controllable standard range, heavy metal (Pb) $\leq 10\text{ppm}$; no irreversible massive turbidity after standing at 5°C low temperature; cured coatings feature high hardness, excellent hydrophobicity, boiling water and weather resistance without particle pinholes, consistent viscosity and crosslink stability across batches.

5.2 List of Abnormal Physical & Chemical Safety Indicators

1. Excessive water content: Incomplete dehydration after hydrolysis, water absorption from failed package sealing, condensed water from high-humidity storage, water intrusion from logistics leakage.
2. Resin yellowing and haze: Over-polycondensation under high temperature, catalysis by metal ions, residual colored organic impurities.
3. Continuous viscosity surge and local gelation: Excessive silanol groups, metal catalysis, self-polycondensation under long-term high-temperature open storage.
4. Granular pockmarks after spraying: Unfiltered coarse siloxane agglomerates, carbon powder and inorganic salt impurities.
5. Insufficient curing hardness and abrasion resistance: Low crosslink density, excessive removal of low-molecular abrasion-resistant components, incomplete hydrolysis.
6. Frequent pinholes and bubbles: Volatilization of residual methanol, ethanol and water under baking heat.
7. Boiling water and weather resistance whitening & cracking: Excessive silanol residues, loose coating crosslink, residual acid and alkali impurities.
8. Excessive ash and heavy metal content: Residual catalytic salts from hydrolysis, incomplete water washing neutralization desalting.
9. Low-temperature turbidity and stratification: Enriched high-molecular agglomerated components, excessively broad molecular weight distribution.
10. Poor storage stability: Lack of light-proof, moisture-proof and oxygen-isolation protection, continuous silanol polycondensation leading to monthly deterioration of viscosity and performance.

VI. Rapid Troubleshooting Process for After-Sales Customer Complaints by Grade

6.1 Grade I Fault (Unqualified Core Indicators)

Fault Scope: Substandard solid content / silanol / residual alcohol indicators, massive gelation and turbidity of resin, complete failure of coating abrasion and hydrophobic performance, unqualified third-party testing.

Troubleshooting Sequence: Retest solid content, viscosity, silanol groups and residual methanol of retained samples; physical and chemical screening of water content and heavy metals; low-temperature storage stability test; comparative testing of coating hardness, hydrophobicity and boiling water

resistance against reference samples; check batch COA quality inspection reports; review full-process production ledgers of hydrolysis, condensation, desolventization and filtration filling; verify incoming raw material quality inspection records and constant-temperature light-proof moisture-proof oxygen-isolation storage records.

6.2 Grade II Fault (Application Functional Faults)

Fault Scope: Coating granular pockmarks, pinholes and bubbles, insufficient hardness and abrasion resistance, failed hydrophobic waterproof performance, high-temperature cracking and chalking, reduced insulation resistance, resin thickening and gelation during storage.

Troubleshooting Sequence: Confirm downstream paint mixing dilution ratio, baking temperature & duration, system pH and substrate pretreatment; check if resin storage environment suffers high temperature, high humidity, open water absorption and premature polycondensation gelation; confirm standardized paint mixing pre-mixing, filtration and spraying processes; inspect light-proof sealing conditions of finished coating packages; distinguish true faults from pseudo-faults caused by raw material quality defects, improper terminal baking, high-humidity construction and acid-alkali systems.

6.3 Grade III Fault (Minor Sensory Physical Defects)

Fault Scope: Slight pale yellow resin, reversible short-term haze under low temperature, small batch viscosity fluctuation, trace suspended micro-particles.

Troubleshooting Sequence: Check high-temperature heat accumulation in storage, barrel wall condensed water from day-night temperature difference, logistics exposure to sunlight and freezing, package sealing light-proof moisture-proof oxygen-isolation performance; retest full set of physical and chemical indicators as well as coating abrasion and hydrophobic stability performance; distinguish reversible physical turbidity under low temperature from true gelation via silanol polycondensation.

VII. Full-Process Prevention & Optimization Supporting Scheme

1. Raw Material & Hydrolysis Condensation Control: Adopt high-purity single methyltrialkoxysilane raw materials, strictly control difunctional / tetrafunctional silane impurities, water content and heavy metals; implement segmented low-temperature sealed precise hydrolysis to stabilize reasonable silanol content and balance crosslink density with storage stability; remove residual small molecular alcohols, inorganic salts, coarse agglomerated siloxane and colored impurities via gradient vacuum desolventization + multi-stage precision filtration + low-

temperature activated carbon decolorization, eliminating six core risks at source: storage viscosity drift, turbid liquid with particles, yellow brittle coatings, substandard boiling water & weather resistance and poor resin miscibility, to guarantee high crosslink density, particle-free property, low residual solvent and long-term stable abrasion & hydrophobic performance.

2. Production Process Optimization: Complete hydrolysis, water washing, decolorization and desolventization under full-process nitrogen light-proof oxygen-isolation; implement multiple cycles of pure water multi-stage water washing to remove catalytic acid, alkali and metal salts, eliminate hidden risks of storage catalytic polycondensation; precisely control desolventization temperature to avoid excessive loss of abrasion-resistant low-molecular components; conduct homogenization maturation in constant-temperature sealed storage tanks to unify batch viscosity, silanol content and molecular weight distribution; implement precision filtration and sealed non-open filling in clean workshops to eliminate secondary water absorption, agglomeration and impurity pollution and remove batch performance differences.
3. Packaging, Storage & Logistics Control: Adopt light-proof high-barrier HDPE sealed barrels resistant to silicon resin for full sealing oxygen and moisture isolation storage; store in light-proof dry warehouse with temperature 10–30°C and humidity $\leq 45\%$, stack off ground, partition and isolate strong acids, strong alkalis, water-containing solvents and metal catalytic materials; implement constant-temperature moisture-proof protection for full logistics transportation, avoid carriage high-temperature exposure, subzero freezing and package leakage damage, preventing resin water absorption hydrolysis, silanol polycondensation thickening gelation and coating performance attenuation.
4. Standardized Terminal Application: Store resin in sealed cool environment all the time; heat to above 20°C and fully stir evenly before use under low temperature environment; perform secondary filtration with matched filter screens before paint mixing to remove trace agglomerated particles and eliminate coating pockmarks; control baking curing temperature range to avoid incomplete crosslinking under low temperature or pinhole chalking under excessive temperature; maintain neutral range of coating system to avoid extreme acid and alkali catalysis of siloxane hydrolysis; control

construction humidity $\leq 60\%$ during spraying and coating to reduce water vapor intrusion inducing coating whitening; store finished coatings under light-proof constant temperature to stably maintain long-term high hardness, hydrophobic anti-fouling, high-temperature insulation resistance and abrasion mold release performance, eliminating finished product defects including particles, pinholes, whitening cracking, mold sticking and insulation failure.

If you require more professional and in-depth analysis regarding all types of Poly methylsilsesquioxane issues, please contact HiSiaddi customer service or visit www.hisiaddi.com

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