

AC WOODLAK® Catalyst 40

High Temperature Grade Acid Catalyst for AC Lacquer Systems

Description

AC WOODLAK® Catalyst 40 is a high-temperature grade acid catalyst formulated with a slow-evaporating solvent blend for use with the Specialized Coating Systems AC lacquer range. It is specifically designed for hot ambient conditions where standard catalysts cure too rapidly, causing solvent entrapment and surface defects.

By retarding surface dry time, Catalyst 40 allows trapped solvents to escape from the lacquer film before skin formation, preventing solvent rash, blushing and loss of gloss. This makes it the preferred catalyst for achieving high-gloss finishes (≥80% sheen) in temperatures above 25°C.

Intended Uses

- AC WOODLAK® gloss lacquers (+80% sheen) in hot ambient conditions (>25°C)
- Summer production environments where standard catalyst cures too fast
- High-gloss furniture, cabinetry and joinery finishing
- Any AC lacquer application where solvent rash or blushing is occurring

Features & Benefits

- **Solvent Rash Prevention:** Slow-evaporating solvent blend allows trapped solvents to escape before surface skinning
- **Optimised for Heat:** Formulated specifically for ambient temperatures above 25°C
- **Superior Gloss Retention:** Prevents blushing and haze that degrade high-sheen finishes in hot conditions
- **Full System Compatibility:** Compatible with all AC WOODLAK® lacquers, though best suited for gloss grades
- **Consistent Pot Life:** 8-hour working time at 20°C

Technical Data

Property	Specification
Colour	Light brown
Product Type	Acid catalyst (solvent-borne, slow-evaporating grade)
Density	0.95 kg/litre
Mix Ratio (Volume)	20:1 (5%) in AC lacquers
Pot Life	8 hours at 20°C
Viscosity	11–12 seconds FC4 (catalysed mix)
Flash Point	< 21°C (flammable)
Application Temperature	25°C+ substrate temperature (hot conditions)
VOC Content	Refer to SDS

System Compatibility

Only compatible with Specialized Coating Systems AC WOODLAK® lacquer products:

- AC WOODLAK® (Y) Lacquer – Clear & Pigmented
- AC WOODLAK® (NY) Lacquer – Clear & Pigmented
- AC WOODLAK® (NY) Rapid Lacquer – Clear & Pigmented
- AC WOODLAK® Sanding Sealers & Primers (will retard drying time)

Mixing & Application

WOOD & FURNITURE: COATINGS:

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

Add the required amount of catalyst to the AC WOODLAK® lacquer and stir thoroughly for 2–3 minutes until uniformly blended. Do not shake vigorously as this introduces air bubbles. Allow the catalysed mix to stand for 5 minutes before application to release any trapped air.

Use the catalysed material within the stated pot life. Do not return unused catalysed material to the original container. Discard any material that has exceeded its pot life.

Pack Sizes

Pack Size	Volume
1 litre	1.00 lt
5 litre	5.00 lt

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Limitations

- Only compatible with Specialized Coating Systems AC WOODLAK® lacquer products. Do not use with other manufacturers' lacquer systems.
- Unmixed material (in closed containers) should be maintained in protected storage in accordance with the Storage section of this data sheet.
- Do not use catalysed material beyond the stated pot life – discard and prepare a fresh mix.
- Application, environmental and design factors can vary. Due care should be exercised in the selection and verification of the coating system for the intended use.
- Test performance results were obtained in a controlled laboratory environment. Speccoats™ makes no claim that published test results accurately represent results found in all field environments.

Storage & Shelf Life

Property	Specification
Shelf Life	6 months minimum at 25°C, subject to inspection thereafter
Storage Conditions	Store in dry conditions out of direct sunlight, away from sources of heat or ignition
Container	Keep containers tightly sealed when not in use

Health & Safety

For complete safety and handling information, refer to the appropriate Safety Data Sheet (SDS) prior to using this product. Ensure adequate ventilation during use. Avoid prolonged skin contact and inhalation of vapours. Use appropriate PPE including chemical-resistant gloves, safety goggles and respiratory protection where ventilation is insufficient.

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