



Acomo® Acoustic Spray System | Technical Data Sheet

Product Description

Acomo® Acoustic Spray is a two-component acoustic spray system consisting of loose cellulose fibers (made from recycled paper) and a water-based polymer adhesive. The mixture is spray-applied on site to ceilings or walls, forming a seamless monolithic layer that absorbs sound and reduces reverberation in interior spaces. Once cured, the finish is continuous and textured, improving room acoustics by dampening noise and echo. The product is fire-rated Class B under EN 13501-1, enhancing fire safety in installations. Available in a wide range of standard colors (white, off-white, black, multiple greys, beige, terracotta, red, green, blue, brown) to suit design needs, with custom colors available on request. The cured finish is uniform and visually matte.

Technical Specifications

Acoustic absorption acc. to EN ISO 11654	15 mm	20 mm	25 mm	30 mm	35 mm
Class	C	C	B	A	A
AW	0.60	0.75	0.80	0.95	1.00
NRC	0.75	0.85	0.90	0.95	1.00
125 Hz	0.11	0.18	0.17	0.24	0.29
250 Hz	0.31	0.49	0.52	0.67	0.73
500 Hz	0.73	0.92	1.00	1.06	1.09
1000 Hz	0.95	1.03	1.01	1.03	1.09
2000 Hz	0.94	1.00	0.97	1.00	0.99
4000 Hz	1.06	1.08	1.07	1.03	0.96

Fire safety acc. to EN 13501-1	B-s1-d0				
Thermal insulation (informative)	The primary function of Acomo® Acoustic Spray is sound absorption, not thermal insulation. Cellulose-based materials typically have slight thermal conductivity on the order of 0.04 W/m·K. Users should rely on dedicated thermal insulation materials (e.g. PIR insulation board) underneath the acoustic spray if strict U-value targets are required.				
Density (kg/m ²)	15 mm	20 mm	25 mm	30 mm	35 mm
Wet state (after spraying)	6.4	7.2	8.2	9.6	11.5
Dried state (after curing)	1.4	1.6	1.8	2.1	2.5

Applications

Suitable Environments	Indoor and semi-enclosed, weather-protected spaces (e.g. offices, meeting rooms, classrooms, retail, hospitality, studios, lobbies, and parking garages)
Environmental Conditions	Dry, climate-controlled areas. Not suitable for wet or continuously damp spaces such as bathrooms or outdoor areas. Use in swimming pools is possible with proper ventilation and humidity control.
Substrates	Applicable to stable, dry, and dust-free surfaces (e.g. concrete, plaster, wood, metal). Substrates must be clean, grease-free, and free of loose particles. Remove rust or flaking paint. Use a primer on porous or stained surfaces, especially when applying light colors.

Application Guidelines

Surface Preparation	Ensure the substrate is stable, clean, and dry. Remove dust, grease, loose paint, or rust. For light colors, apply a white primer to block stains or strong contrasts. Let primer dry fully before spraying.
Equipment	Use a professional spray machine with integrated blower and adhesive pump. Acomo® recommends approved equipment. Keep all tools clean and in good condition. PPE is mandatory (see Safety).



Scan the QR code
for more information
or contact us on
+31 (0)345 - 745 401

Rijnstraat 51B
4191 CK, Geldermalsen
The Netherlands
info@acomo-acoustics.com

Acomo®
International Trading

Application Method	Apply in multiple thin layers (~4 mm each), up to maximum 35 mm total. Wet-on-wet is possible. Spray evenly at ~30–50 cm distance. Overlap passes and check thickness regularly. Clean nozzle if clogged.
Drying and Curing	Dries at least 1 mm per day at 15 °C/60% RH. Longer for thicker layers or lower temperatures. Avoid touching or ventilating directly during early drying. Use space only after full cure.
Cleanup	Protect surroundings before spraying. Remove masking before full cure. Clean tools with warm water immediately. Do not rinse residue into drains, collect and dispose properly. Wipe overspray while wet.

Maintenance & Repair

Cleaning	Vacuum gently with a soft brush. Avoid water or liquid cleaners. For small stains, use a dry sponge or eraser after testing.
Protection	Cover surfaces during nearby work. Replace HVAC filters regularly. Ensure good ventilation in areas prone to smoke or grease.
Minor Repairs	Light damage can be re-sprayed with matching material. Moisten edges before patching. Small spots may be hand-repaired with fiber and glue.
Re-coating	For discoloration or design changes, clean and reapply a new layer.
Major Repairs	For extensive damage, consult Acomó® or a certified installer. Always resolve underlying issues (e.g. leaks) before repair.

Storage, Packaging & Shelf Life

Storage Conditions	Store in a dry, cool, frost-free place. Keep original packaging sealed. Protect from moisture, heat, and freezing. Adhesive: +5 °C to +35 °C. Do not use damp or clumped fibers.
Packaging	Cellulose: plastic bags (~12,5 kg). Glue: 10 kg buckets. Keep packaging tightly closed.
Shelf Life	Glue: 24 months at 10–20 °C in unopened packaging. Do not use degraded materials (e.g. clumped fibers, separated glue).

Safety Information (Summary)

Chemical Safety	Water-based, non-hazardous components. VOC negligible. No hazardous emissions after curing.
Personal Protective Equipment (PPE)	Required during spraying: coveralls with hood, gloves, P2/P3 dust mask, and eye protection. Prevents irritation from fiber dust and adhesive mist.
Handling & Ergonomics	Use trained personnel. Ensure safe equipment handling, fall protection, and RCD-protected power. Take breaks due to physical demands.
First Aid	Low health risk. Rinse eyes/skin with water if exposed. Seek medical advice if irritation occurs. No chronic effects known.
Fire Safety	Fire-resistant (Class B-s1-d0). Avoid ignition sources during application. Use water mist, foam or dry powder in case of fire.
Environmental Precautions	Do not rinse residues into drains. Collect and dispose of waste properly. Dried product is non-hazardous.
Transport	Not classified as dangerous goods. Protect adhesive from freezing. Secure fiber bags during transit.
Further Information	Refer to SDS for Acomó® Cellulose and Acomó® Glue for detailed safety and regulatory data.

Application Tips

We recommend pre-drilling of suspension points in preparation for the work. To achieve a clean transition between the sprayed surface and adjacent finishes, consider installing a pre-painted trim or L-profile. After spraying, repaint the trim to ensure a uniform appearance. For optimal sequencing, apply the acoustic spray after plastering and before painting.



Disclaimer

This Technical Data Sheet provides accurate information based on Acomó's current knowledge and experience. It does not replace professional judgment. Users must assess suitability for their specific project and ensure correct application conditions. Performance may vary due to factors beyond the manufacturer's control (e.g. substrate, environment, workmanship). No guarantees are implied. The installer is responsible for verifying that the product meets project-specific requirements. For safety and regulatory compliance, refer to the Safety Data Sheets (SDS), which take precedence over this document. Always follow local regulations and codes. For projects requiring specific certifications (e.g. acoustic or fire-rated assemblies), additional testing may be needed. Contact Acomó for available reports or guidance. Product data may change without notice. Always use the latest version of this TDS. By using the product, the user accepts these conditions. For questions, contact Acomó's technical support.

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Rijnstraat 51B
4191 CK, Geldermalsen
The Netherlands
info@acomo-acoustics.com

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