Visible fine cellulose spray

Visible fine cellulose spray is a sound absorbing, seamless acoustic spray based on cellulose fibers that are sprayed-on in spaces where the reduction of reverberation time and sound level as well as improving the acoustics are the aim.

Fine spray

Sprayed and troweled

System structure, structure of the elements, materials

Visible fine cellulose spray is a decorative and sound absorbing product that can be sprayed as a finish onto ceilings and walls of metal, concrete, plaster, wood, and other materials in almost any RAL or NCS color.

Visible fine cellulose spray has a fine fiber structure. By varying the thickness, sound absorption can be ‘customized’.

Shape, dimensions, weight

Thickness of layer:
Visible fine cellulose spray : 25-35-50 mm
Density: ca. 2 kg/m2 at 20 mm thickness, depending on the degree of finishing.

Look

Surface structure: regular and very fine structure. Can be sprayed with a rough structure if desired. Can be troweled to obtain a smoother surface after spraying.

Color

Visible fine cellulose spray: white.
Other RAL or NCS colors available on request even for small surfaces with our special acoustic coating.

Fire, explosions

Fire reaction in accordance with BS EN ISO 11925-2 and EN 13823 : B-s1,d0

Resistance

Visible fine cellulose spray is not resistant to water and oil.

Environment

Based on recycled paper

Mechanical properties

The sprayed materials are impact resistant, but otherwise their mechanical properties are limited.

Thermal properties

Heat transfer coefficient = 0,032 W/(mWK).

Uses, design

Sprayed Visible fine cellulose spray can be used as a finish for smooth or curved surfaces with the original shape retained in public spaces, indoor swimming pools, sports halls, industrial spaces, churches, sound studios, theaters, classrooms, university halls, day care centers and any other location in order to control reverberation time, with the result being an increase in acoustic comfort, the sound level being decreased an clarity of speech optimized.

Application characteristics

The substrate must be airtight, waterproof, clean, dry and free of grease. Any seams and holes in the surface as well as the joints between walls and the ceiling must be sealed in advance to prevent airflows through the Visible Zero Carbon fine cellulose spray layer. Primer must be applied in advance to untreated wood and metal as well as heavily fouled substrates (nicotine) to prevent bleed-throughs.

Can locally be repaired but color and/or structure differences are possible.

Profiles

A delineation must be located at the end of the area to be sprayed, against a wall or open window, for example. In the absence of such a delineation, a profile or similar device must be attached to the surface.

Application

Visible fine cellulose spray is sprayed with a special spray machine.

Acoustic properties

Sound absorption

When you apply Visible fine cellulose spray in various thicknesses you can regulate the acoustics of the space. For an overview of the sound absorption measurements for Visible fine cellulose, please refer to the table below

Thickness	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz
25 mm	0,06	0,15	0,21	0,34	0,45	0,57	0,71	0,82	0,88	0,92
35 mm	0,12	0,22	0,31	0,45	0,57	0,74	0,93	1,02	1,05	1,05
50 mm	0,22	0,48	0,66	0,89	1,09	1,15	1,17	1,18	1,12	1,08

1000 Hz	1250 Hz	1600 Hz	2000 Hz	2500 Hz	3150 Hz	4000 Hz	5000 Hz	αw	Class
0,94	0,99	1,02	1,03	1,03	1,03	1,03	1,02	0,75	C
1,03	1,01	1,01	1,01	1,01	0,98	1	0,98	0,9	A
1,05	1,04	1,03	1,01	1,06	1	0,99	0,97	1,07	A