

Bulletin acospray dc

Description

Acospray is a seamless acoustical spray that can be applied in a single layer. Herewith every acoustical absorption is in arms reach with a minimum in thickness. Acospray is applied directly against the substrate.

Key features

- Excellent acoustical properties
- Durable
- Water-based
- Quick application, very high layer thickness, reach: 5 - 45mm in a single process
- Standard colors: white, light grey, grey and black
- In mass deliverable in any color by adding pigments into the adhesive
- Hygroscopic
- Light weight
- Diffusion open
- Easy to repair
- Good and durable elasticity

Applications

Both new constructions and renovations, as long as the acoustic experience plays an important role. For instance: Community spaces, residential buildings, classrooms, restaurants, sports, auditoriums, nightlife, car parks, offices, living rooms, kitchens, swimming pools, care homes, conference rooms, etc.

Fire-resistant class

Classification: EN 13501-1:2007+A1:2009 B-s1.d0

A combination with a fire-resistant acoustical absorbing board is also possible.

Processing data

- The spray is applied by a specifically developed technique consisting of a pump and a separate spraying machine TB 1.0;
- Optimal applying conditions > 15°C, with a relative humidity < 65%

Product information

- The complete system is applied by mobile scaffolds or platforms;
- Basic material: Quality recycled cellulose fibers with mineral supplements;
- Adhesive: advanced water-based polymer bonding technology;
- Density: 2kg/m² in 20mm thickness, depending on the finish level;
- Gloss: matt

Structure

Generally sprayed in a single layer. Possible to integrate a fire-resistant acoustical absorbing board in combination with Acospray DC1, DC2 and DC3

Systems

Pre-treatment:

- Substrate needs to be clean, dry and free of dust;
- Remove loose parts;
- Completely close holes and cracks in substrate;
- Unevenness >3mm must be smoothed;
- Those electricity pipes and cables that have to be out of sight, need to be placed directly on the substrate so that they can be hidden in the spraywork;
- Electricity boxes need to be extended in the thickness of the spraywork;
- Metal parts need to be treated water retaining;
- For renovation projects, the substrate need to be treated with Acoprimer to prevent bleedings;
- Aluminium or plastic profiles need to be placed to end the spraywork when it is not possible to end against a wall or window frame.

Finishes:

- Multiple finishes are possible, applied in a single layer until the desired thickness is reached;
- Finishing around the edges, using a special suitable tool, to prevent unevenness edges.

Structures:

- DC1 flattened surface
- DC2 fine structure
- DC2 2.0 rolled surface
- DC3 standard structure
- DC5 budget spray work

Acoustical properties Acospray DC1 (NEN-EN-ISO 354:2003)

Product type:	125Hz	250Hz	500Hz	1kHz	2kHz	4Khz	α_w	NRC
Acospray DC1 35mm on 30mm mineral wool + 5mm spray	0,23	0,78	0,99	0,99	0,98	0,96	1,00	0,95

Acoustical properties Acospray DC2 (NEN-EN-ISO 354:2003)

Product type:	125Hz	250Hz	500Hz	1kHz	2kHz	4Khz	α_w	NRC
Acospray DC2 5mm	0,11	0,17	0,39	0,69	0,67	0,82	0,40	0,50
Acospray DC2 15mm	0,14	0,33	0,78	0,96	0,97	0,99	0,65	0,75
Acospray DC2 32mm	0,22	0,58	0,83	0,92	0,96	0,94	0,85	0,80
Acospray DC2 42mm	0,23	0,68	0,83	0,93	0,98	1,04	0,90	0,85

Acoustical properties Acospray DC3 (NEN-EN-ISO 354:2003)

Product type:	125Hz	250Hz	500Hz	1kHz	2kHz	4Khz	α_w	NRC
Acospray DC3 10mm	0,12	0,19	0,44	0,80	0,81	0,99	0,45	0,55
Acospray DC3 15mm	0,14	0,26	0,64	0,95	0,95	1,04	0,55	0,70
Acospray DC3 20mm	0,19	0,32	0,77	1,03	1,00	1,02	0,60	0,80
Acospray DC3 25mm	0,23	0,49	0,92	1,06	1,02	1,01	0,75	0,85
Acospray DC3 35mm	0,32	0,73	0,97	1,02	1,00	0,94	1,00	0,95

Acoustical properties Acospray DC5 (NEN-EN-ISO 354:2003)

Product type:	125Hz	250Hz	500Hz	1kHz	2kHz	4Khz	α_w	NRC
Acospray DC5 25mm	0,17	0,44	0,92	1,05	1,02	1,05	0,70	0,85
Acospray DC5 35mm	0,40	0,71	1,01	0,96	1,00	1,04	0,95	0,90
Acospray DC5 45mm	0,43	0,79	1,03	1,00	1,02	1,04	0,95	0,95
Acospray DC5 25mm on gypsum board 9,5mm, air gap 26 mm	0,21	0,60	0,80	1,03	1,01	1,05	0,80	0,85
Acospray DC5 25mm on gypsum board 9,5mm, air gap 65 mm	0,64	0,50	0,77	1,03	1,05	1,07	0,75	0,85
Acospray DC5 25mm on gypsum board 9,5mm, air gap 65 mm, 80% mineral wool filling 30mm	0,85	0,55	0,77	1,04	1,06	1,09	0,80	0,85
Acospray DC5 25mm on gypsum board 9,5mm, on 30mm mineral wool boards, direct on granite floor	0,81	0,63	0,82	1,04	1,05	1,07	0,85	0,90