CapaCoustic
Systems for optimum room acoustics
Scientific investigations confirm again and again that the general performance, receptivity and power of concentration is noticeably increased when the room ambience facilitates easy conversion and comprehension. Optimum acoustics improve the individual sense of well-being and the subjectively perceived "feel-good" factor of a room.

Particularly medium to large rooms as found in kindergartens, schools or restaurants have shortcomings in this respect. The rooms "resound" and substantially impair communication. For example, in a classroom with a long reverberation time poor acoustics may mean that "listening becomes a real physical strain".*

Rooms with inadequate room acoustics are however not only found in educational establishments and in the catering industry from bistro to restaurant. Also casinos and canteens, hairdressers and beauty salons, halls and exhibition rooms, hotels, open-plan offices, call centres, foyers, corridors, stairways and other commercial or private working and living areas are affected. American studies have found that even in clinics there is a significant increase in acoustic stress – both during the day and at night.

Inadequate room acoustics do not have to be just accepted as a matter of course. There are in fact various acoustic systems which can be employed early in the planning phase or correctively during refurbishment. More than ever solutions are needed here which offer the application trade, architects and specialist acoustic planners alike some freedom in design.

With its CapaCoustic range Caparol provides a finely matched selection of products, reliably covering all the requirements for optimum room acoustics – always, of course, with

* Dr. Markus Meis, Manager of the Market and Psychological Impact Department, Acoustics Centre Oldenburg.
an attractive visual appearance. The three CapaCoustic systems of Fine, Structure and Melapor are here particularly characterised by application and performance features – here you can be certain: for each application you have the most suitable system available. Please turn over.

Subtle acoustics, subtle ceiling: No acoustic ceiling can be more attractive and less conspicuous – CapaCoustic Fine, here in the Pinakothek der Moderne, Munich.
With CapaCoustic Fine you have a high quality, high-end product available, which is mainly used in the sophisticated interior finishing of private, commercial and public premises, but also in building structures with special architecture. Prominent examples here are the Munich art museum, Pinakothek der Moderne or the exhibition hall at the World Heritage site in Völklingen.

A special design plus: The surface of CapaCoustic Fine is elegant and smooth. It is not perceived as an acoustic ceiling – not even under closer surface examination. This system offers excellent application possibilities, particularly for exacting challenges in architecture. The excellent acoustic properties are always ensured by very good absorption values.

CapaCoustic Fine is classified as Building Materials Class A (non-combustible). This enables it to be installed in rooms with stringent fire regulations and also on escape routes. Also in heritage protection CapaCoustic is a first-class choice, because its surface comes very close to that of gypsum plasters.

CapaCoustic Fine
Fine-grained, smooth-finish plaster coating

- High quality – seamless ceiling system
- Innovative – patented smooth plaster coating
- Excellent acoustics – very good absorption values
- Non-combustible – Building Material Class A2 to DIN 4102-1
- Long-lasting – easily decorated without loss of absorption
**System description**
The CapaCoustic Fine system mainly consists of an acoustically effective, pre-coated acoustic plaster baseboard which is coated with an open-pored plaster. Depending on the application techniques used for the plaster coating, seamlessly plastered, sound absorbing surfaces can be produced.

**Product Description**
The product properties of the acoustically effective plasters facilitate the creation of very fine structured surfaces, which do not permit the open-pored inner structure to be discerned. The acoustic system is primarily employed in the ceiling area. On interior walls the application generally only occurs above the heavily mechanically stressed partial areas, usually above 2 m. CapaCoustic Fine can be applied to all sound substrates.

**Material description/system components**

**CapaCoustic Pastöskleber, paste adhesive**
Dispersion bound, elastic adhesive compound with mineral filler for bonding the CapaCoustic Fine-Putzträgerplatte 036/04-06, plaster baseboard. Prod.-No.: 037/11, Tub content: 20 kg

**CapaCoustic Mineralkleber, mineral adhesive**
Mineral factory dry mortar for bonding the CapaCoustic Fine-Putzträgerplatte 036/64-66. Prod.-No.: 037/12, Content: 25 kg

**CapaCoustic Fine-Putzträgerplatte B1, plaster baseboard**
Lightweight, highly porous mineral fibre board with a hydrophobic pre-coating.

<table>
<thead>
<tr>
<th>Prod. No.</th>
<th>Thickness</th>
<th>m² / pallet</th>
</tr>
</thead>
<tbody>
<tr>
<td>036/04</td>
<td>40 mm</td>
<td>28.7</td>
</tr>
<tr>
<td>036/06</td>
<td>60 mm</td>
<td>19.4</td>
</tr>
</tbody>
</table>

**CapaCoustic Fine-Putzträgerplatte A2, plaster baseboard**
Lightweight, highly porous mineral fibre board with hydrophobic pre-coating, non-combustible according to Building Materials Class A2.

<table>
<thead>
<tr>
<th>Prod. No.</th>
<th>Thickness</th>
<th>m² / pallet</th>
</tr>
</thead>
<tbody>
<tr>
<td>036/64</td>
<td>40 mm</td>
<td>28.7</td>
</tr>
<tr>
<td>036/66</td>
<td>60 mm</td>
<td>19.4</td>
</tr>
</tbody>
</table>

**CapaCoustic Fine-Fugenspachtel, joint filler**
Easily sanded filler for spreading and smoothing in the region of the board seams. Prod. No.: 036/13, Tub content: 10 kg

**CapaCoustic Fine-Putz Basic, plaster foundation**
Read-to-use, dispersion-bound, acoustically effective plaster as foundation layer.
Colour: White. Prod. No.: 036/70, Tub content: 20 kg

**CapaCoustic Fine-Putz Top, finishing plaster**
Ready-to-use, dispersion-bound, acoustically effective plaster for obtaining very finely structured surfaces.
Colour: White. Prod. No.: 036/30, Tub content: 20 kg

**CapaCoustic Fine-Abschlussprofil, termination profile**
Termination profile in the area of movement and expansion joints, as wall junction with shadow gap as well as for flush-edge plaster termination. Length: 2 m; Package: 10 m bundle

<table>
<thead>
<tr>
<th>Prod. No.</th>
<th>for board thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>036/54</td>
<td>40 mm</td>
</tr>
<tr>
<td>036/56</td>
<td>60 mm</td>
</tr>
</tbody>
</table>

**Shadow gap on plaster board**
Sound absorptio

CapaCoustic Fine, suspended

CapaCoustic Fine, directly bonded

<table>
<thead>
<tr>
<th>Frequency, f [Hz]</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA Fine-Putzträgerpl. 40 mm</td>
<td>0.28</td>
<td>0.47</td>
<td>0.76</td>
<td>0.74</td>
<td>0.65</td>
<td>0.58</td>
</tr>
<tr>
<td>CA Fine-Putzträgerpl. 60 mm</td>
<td>0.37</td>
<td>0.49</td>
<td>0.72</td>
<td>0.71</td>
<td>0.69</td>
<td>0.67</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Frequency, f [Hz]</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA Fine-Putzträgerpl. 40 mm</td>
<td>0.19</td>
<td>0.65</td>
<td>0.77</td>
<td>0.72</td>
<td>0.64</td>
<td>0.68</td>
</tr>
<tr>
<td>CA Fine-Putzträgerpl. 60 mm</td>
<td>0.31</td>
<td>0.63</td>
<td>0.64</td>
<td>0.67</td>
<td>0.63</td>
<td>0.52</td>
</tr>
</tbody>
</table>

Optimum room acoustics

CapaCoustic Fine: Pinakothek der Moderne, art museum, Munich

Inspection flap installation
CapaCoustic Structure is the variable favourite for the commercial sector – and at the same time a real trendsetter for all private applications. With its fine surface structure CapaCoustic Structure opens up a multitude of possible applications – and enables planners and architects to use reverberant materials such as glass, stone or parquet flooring. The sophisticated, fine visual effect with an inconspicuous 1 mm grain size is accompanied by a high luminous reflectance – the result is bright, light rooms which generate a pleasant room ambience in both private and commercial surroundings.

The balanced price/performance ratio is also retained when additional requirements are placed on the system: Whether with integral illumination, public address system or air-handling ceiling – CapaCoustic Structure is an adaptable all-rounder with an economic plus.

Demanding room acoustics – including high light reflection

Open-pore spray-plaster coating

- **Fine** – seamless surface structure with 1 mm grain size
- **Bright** – high luminous reflectance, white 90%
- **Excellent acoustics** – good absorption values
- **Efficient** – spray coating up to three metres height without scaffolding.
- **Non-combustible** – Building Material Class A2 to DIN 4102-1
- **Long-lasting** – easily decorated without loss of absorption
- **Tintable** – factory-tintable even with intensive colours

CapaCoustic Structure: Seamless ceiling system with spray-plaster coating
System description
The CapaCoustic Structure system consists of a substructure of CD profiles, a perforated plaster board mounted according to the manufacturer’s specification, a special full-cover- age acoustic fleece to be applied by the customer and a fine, open-pored spray-plaster coating. The system, CapaCoustic Structure, is suitable for producing seamless acoustically effective surfaces in interior areas. The acoustic system is primarily employed in the ceiling area. On interior walls the application usually only occurs above the heavily mechanically stressed partial areas, generally above 2 m. CapaCoustic Structure can be applied to all sound substrates. It must be ensured that in the back-ventilated cavity at the rear the same climatic conditions prevail as in the room itself, because otherwise condensation may form, leading to soiling of the surface.

Material description/system components
Substructure and top layer
Commercially available substructure of CD profiles 60/27, suspended rigid in compression, and a covering layer of fleece-backed plaster boards, mounted to the manufacturer’s specification.

CapaSol LF Tiefengrund, penetrating stopper
Ready-to-apply, unpigmented special acrylic primer.
Content: 10/25 litres

Capacoll GK Kleber, adhesive
Ready-to-use dispersion adhesive for bonding CapaCoustic Premium Vlies to interior surfaces. Content: 10/16 kg

CapaCoustic Premium Vlies
Special glass fleece with white factory coating to match the customer’s CapaCoustic spray-plaster coating.
Prod. No.: 038/21. Roll 30 m x 1 m

CapaCoustic Spritzputz 1 mm, spray-plaster

Sound absorption

<table>
<thead>
<tr>
<th>Frequency, f [Hz]</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA Structure</td>
<td>12/25 perforation</td>
<td>0.45</td>
<td>0.55</td>
<td>0.59</td>
<td>0.48</td>
<td>0.42</td>
</tr>
</tbody>
</table>

![CapaCoustic Structure, suspended](image1.png)

![CapaCoustic Structure, suspended](image2.png)

![CapaCoustic Structure, suspended](image3.png)

![CapaCoustic Structure, suspended](image4.png)

![Recessed luminaire](image5.png)

![Shadow gap](image6.png)
CapaCoustic Structure: Cafeteria Caparol, Ober-Ramstadt

Detail of joint

System structure
CapaCoustic Melapor is a new sound absorbing system. This system consists of a high-tech plastic with very high sound absorption and is ideally suited to all areas in which an existing noise stress is to be reduced sustainably and without constructional refurbishment measures.

CapaCoustic Melapor is also flexible in application. No matter whether baffle elements or panels for direct bonding are used, a fitting product solution is always available for the sustainable improvement of the room acoustics – easy to apply and always in the customer’s desired colour.

The system can be integrated easily, quickly and cleanly in the existing environment. A more severe impairment of the operational routine due to an elaborate construction site set-up is avoided. The rooms are available for commercial use again after only a short time.

**Optimum acoustics – fast, individual, colourful**

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**CapaCoustic Melapor – Every point a plus point**

- **Excellent acoustics** – high-tech foam material with very high sound absorption ("Class A" sound absorber).
- **Efficient** – effective even with low coverage of the ceilings or walls (approx. 30 – 40% of the area of the room).
- **Quick and clean** – no cost-intensive on-site set-up and the rooms are soon occupied again.
- **Extremely light** – can be fitted almost anywhere.
- **Low flammability** – Fire Characteristics C-S1, d0 to EN DIN 13 501-1; corresponds to B1 in DIN 4102-1.
- **Clean** – no anti-static charging – does not attract dust.
- **Individual** – differently shaped elements for bonding and suspending
- **Colourful** – spray coating with the Caparol interior paint CapaTrend, tintable using Caparol 3D plus colour card
- **High temperature resistance** – long-term from –40°C to +180°C.
- **Physiologically harmless** – free of artificial and natural mineral fibres, halogens and CFCs.

**CapaCoustic Melapor-Panel:** Wall and ceiling panels for adhesive mounting by customer.

**CapaCoustic Melapor-Deckensegel, canopy:** Curved ceiling element for suspension.

**CapaCoustic Melapor-Baffle:** Ceiling element for suspended constructions. The ellipse illustrated here is available exclusively from Caparol. (Registered design No. 077EUD 0207)
CapaCoustic Melapor – System description

Material description
CapaCoustic Melapor elements consist of a thermosetting, plasticised soft foam based on melamine resin with a filigree, open-celled structure.

System description
The CapaCoustic Melapor panels can be directly adhesively mounted as wall and ceiling linings on a sound substrate or suspended as a baffle freely in the room using standard T-rails. Due to the fast mounting and simple application, CapaCoustic Melapor elements are ideally suited to subsequent refurbishment.

System components
- **CapaCoustic Melapor-Kleber, adhesive**
  Flexible and filled dispersion for adhesively mounting CapaCoustic Melapor Panels 034/31-43.
  Prod. No.: 037/13. Tub contents: 25 kg

- **CapaCoustic Melapor-Panel**
  Elements for direct adhesive application (refer to table, left side).

- **CapaCoustic Melapor-Baffle**
  Elements for suspension (refer to table, right side).

Sound absorption

**Panel, flat and corrugated types**

<table>
<thead>
<tr>
<th>Type</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat</td>
<td>0.16</td>
<td>0.55</td>
<td>0.89</td>
<td>0.97</td>
<td>1.00</td>
<td>0.96</td>
</tr>
<tr>
<td>Corrugated</td>
<td>0.08</td>
<td>0.28</td>
<td>0.70</td>
<td>0.88</td>
<td>0.94</td>
<td>0.98</td>
</tr>
</tbody>
</table>

**Baffle, rectangular type**

<table>
<thead>
<tr>
<th>Row centre spacing</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
</tr>
</thead>
<tbody>
<tr>
<td>625</td>
<td>0.13</td>
<td>0.30</td>
<td>0.64</td>
<td>0.82</td>
<td>0.83</td>
<td>0.81</td>
</tr>
<tr>
<td>937</td>
<td>0.11</td>
<td>0.20</td>
<td>0.46</td>
<td>0.62</td>
<td>0.63</td>
<td>0.67</td>
</tr>
</tbody>
</table>

CapaCoustic Melapor picture – High-tech sound absorber with individual character

**NEW** The sound absorber CapaCoustic Melapor picture is the ideal solution to acoustic problems – and a real eye-catcher too. Photographs, company logos, works of art and many other individual lithographs are subtly and brilliantly printed on a special textile surface on the Melapor panel. The result is acoustically optimised rooms with individual, brilliant motif images.

- Sound absorbers with individual motif overprint
- Nuance-enhanced picture quality
- High brilliance and colour reproduction
- UV-resistant printing ink, resilient surface
- Supplied with classic aluminium frame, anodised

**Standard sizes**

<table>
<thead>
<tr>
<th>Length (mm)</th>
<th>600</th>
<th>800</th>
<th>1200</th>
<th>1200</th>
<th>1600</th>
<th>2400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (mm)</td>
<td>450</td>
<td>600</td>
<td>900</td>
<td>1200</td>
<td>1200</td>
<td>1200</td>
</tr>
</tbody>
</table>
Elements for direct adhesive mounting: CapaCoustic Melapor-Panel:

<table>
<thead>
<tr>
<th>Type</th>
<th>Product No.</th>
<th>Length mm</th>
<th>Width mm</th>
<th>Thickness mm</th>
<th>Qty./pack</th>
<th>m²/pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat with bevel</td>
<td>034/31</td>
<td>625</td>
<td>625</td>
<td>50</td>
<td>16</td>
<td>6.25</td>
</tr>
<tr>
<td></td>
<td>034/32</td>
<td>1250</td>
<td>625</td>
<td>50</td>
<td>8</td>
<td>6.25</td>
</tr>
<tr>
<td>Brekki</td>
<td>034/42</td>
<td>Size M: approx. A = 400 mm/B = 440 mm</td>
<td></td>
<td></td>
<td>40</td>
<td>2.96</td>
</tr>
<tr>
<td></td>
<td>034/43</td>
<td>Size L: approx. A = 535 mm/B = 580 mm</td>
<td></td>
<td></td>
<td>24</td>
<td>3.16</td>
</tr>
</tbody>
</table>

Elements for suspension: CapaCoustic Melapor-Baffle

<table>
<thead>
<tr>
<th>Type</th>
<th>Product No.</th>
<th>Length mm</th>
<th>Width mm</th>
<th>Thickness mm</th>
<th>Qty./pack</th>
<th>Area m²/pack</th>
</tr>
</thead>
</table>
| Round        | 034/21      | 1200      | ø 150    |              | 8         | RCS 625.0 = 6.15  
              |             |           |           |              |           | RCS 937.5 = 10.40 |
|              | 034/22      | 1200      | B = 175  | A = 110      | 8         | RCS 625.0 = 0.77  
              |             |           |           |              |           | RCS 937.5 = 1.30  |
|              | 034/23      | 1200      | 625      | 50           | 8         | RCS 625.0 = 6.15  
              |             |           |           |              |           | RCS 937.5 = 10.40 |

Elements for suspension: Accessories for CapaCoustic Melapor Baffles

<table>
<thead>
<tr>
<th>Type</th>
<th>Product No.</th>
<th>Suspension accessories per set</th>
<th>Qty./pack</th>
</tr>
</thead>
</table>
| Suspension set Baffle    | 034/20      | • 1 off T-rail with length of 1190 mm for insertion into the T-groove of the baffles  
                         |             | • 2 off ceiling mounting  
                         |             | • 2 off wire cable with spherical head, length 1500 mm  
                         |             | • 2 off wire cable holder with height adjustment and hook for engaging the T-rail |

Elements for suspension: CapaCoustic Melapor-Deckensegel, canopy

<table>
<thead>
<tr>
<th>Type</th>
<th>Product No.</th>
<th>Length mm</th>
<th>Width mm</th>
<th>Thickness mm</th>
<th>Suspension accessory up to 4.5 m height is included. Rear-side aluminium perforated 2.0 mm panel as bearer panel.</th>
<th>Qty./pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concave</td>
<td>034/51</td>
<td>1020</td>
<td>1020</td>
<td>ca. 30</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Convex</td>
<td>034/52</td>
<td>1020</td>
<td>1020</td>
<td>ca. 30</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Wall absorber: CapaCoustic Melapor picture

<table>
<thead>
<tr>
<th>Type</th>
<th>Product No.</th>
<th>Predefined dimensions</th>
<th>Qty./pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOANF</td>
<td>034/70</td>
<td>Breite mm 450 600 900 1200</td>
<td>1200 1200 1200 1600 2400</td>
</tr>
</tbody>
</table>
Production Sites
Deutsche Amphibolin-Werke
von Robert Murjahn
Stiftung & Co KG
D-64372 Ober-Ramstadt
LACUFA GmbH
Lacke und Farben
Werk Fürstenwalde
D-15517 Fürstenwalde
LACUFA GmbH
Lacke und Farben
Werk Köthen
D-06386 Köthen
LACUFA GmbH
Lacke und Farben
Werk Nerchau
D-04685 Nerchau
OOO SP „LACUFA-TWER”
RU-170039 Twer
Meldorfer Flachverblender
D-25704 Nindorf/Meldorf
WS- Ergotherm
D-69493 Hirschberg-Großsachsen
DAW France S.A.R.L.
F-3550 Heusden-Zolder
Ceparol Italia
GmbH & Co. KG
I-20080 Vermezzo (Mi)
Synthesa Chemie
Gesellschaft m.b.H.
A-4320 Perg
Capatect
Baustoffindustrie GmbH
A-4320 Perg
Caparol Sverige AB
S-40013 Göteborg
CAPAROL (Shanghai) Co., LTD
201801 Shanghai, P.R. China
DAW BENTA ROMANIA
S.R.L.
RO-547525 Sâncraiu de Mureș—Jud. Mureș
DAW Stiftung & Co KG
Geschäftsbereich Lithodecor
D-08491 Netzschkau
Caparol Georgia GmbH
GE-0109 Tbilisi
ICHP „Diskom”
BY-224025 Brest
Caparol Polska Sp. z o.o.
Zakład Produkcyjny w Żbionicy
PL-97-410 Kleszczów
CAPAROL DNIIPRO GmbH
UA-02460 Wasylywka
OOO „Caparol-Malino”
RU-142850 Malino
Sales Offices
DAW Belgium bvba/sprl
B-3550 Heusden-Zolder
Caparol España, S.L.
E-08940 Llinars del Vallés (BCN)
Caparol Farben AG
CH-8606 Nänikon
Caparol Hungária Kft.
H-1108 Budapest
CAPAROL L.L.C.
Dubai • U.A.E.
DAW Coatings Nederland B.V.
NL-3860 BC Nijkerk
Caparol Polska Sp. z o.o.
PK-02-867 Warszawa
Caparol Sarajevo d.o.o.
BiH-71240 Hadzici
Caparol Slovakia s r.o.
SK-82105 Bratislava
Glemadur Farben und Lacke Vertriebsges.m.b.H.
A-1110 Wien
Český Caparol s.r.o.
CZ-37001 České Budějovice
CZ-15800 Praha 5
Caparol d.o.o.
HR-10431 Hvězda
CAPAROL d.o.o.
SI-1218 Komenda
Daw BENTA BULGARIA Eood
BG-1220 Sofia
ICS „DAW BENTA MOL” SRL
MD-2060 Mun. Chisinau
LACUFA GmbH
Lacke und Farben
D-12439 Berlin
Caparol OOO
RU-125493 Moskau
DP CAPAROL UKRAINA
UA-08170 Wita-Poštova
SIA CAPAROL BALTICA
LV-1067 Riga
EE-75312 Harjumaa
UAB „CAPAROL Lietuva”
LT-02244 Vilnius
OOO „LACUFA GmbH
Lacke und Farben”
Repräsentanz Belarus
BY-220116 Minsk
Licensees
BETEK Boya ve Kimya
Sanayi A.Ş.
TR-34742 Bostancı-Istanbul
Pars Alvan Paint & Resin
Industries Mfg. Co. (HAWILUX)
Theheran, Islamic Republic of Iran
Representatives
SEFRA Farben- und Tapetenvertrieb
Gesellschaft m.b.H.
A-1050 Wien
Fachmaart
Robert Steinhäuser SARL
L-3364 Leudelange
Rockidan as
DK-6200 Aabenraa
NOVENTA A.E.
GR-106 82 Athens
Daeyoung Dojang Co., Ltd.
Seocho-Gu, Seoul, Korea