

BASWA PHON SYSTEM

In a room full of reverberating, reective surfaces and materials (concrete, glass, rock, metal, etc.) the acoustic energy generated in the room is echoed. This results in an unpleasant noise level and diused acoustics, which impair the the ability to concentrate, and have an adverse affect on wellbeing. Sound absorbing surfaces, on the other hand, destroy a vast amount of the acoustic energy they encounter and thus make it possible to once again clearly identify the original sound source.

BASWA acoustic AG's seamless acoustic plaster solutions aim at the reduction and control of reverberation times in rooms, large halls and entire buildings, creating pleasant acoustic room climates.



UK certified installation partner

BASWA ADVANTAGES

- ✓ **THE ORIGINAL.** BASWAphon is the original, most specified sound absorbing plaster system, with 25 years of installations
- ✓ **SEAMLESS, FLAT, CURVED, DOMED, AND VAULTED SURFACES.** Up to 5,000 square feet without a control joint can be applied to flat or complex surfaces.
- ✓ **HIGHEST SOUND ABSORPTION.** BASWAphon has NRCs up to 1.05, making it the most sound absorptive plaster on the market.
- ✓ **EASILY CLEANED AND REPAIRABLE.**
- ✓ **TINTED TO MATCH ANY COLOR.** No adverse effects on acoustical performance with uniform color.
- ✓ **GREAT IN HUMID ENVIRONMENTS.** Resilient and Base Finishes are not water soluble and are mold, moisture and mildew resistant. Perfect for spas, natatoriums or porte-cochères. All finishes rated 10 / 10, signifying no mold growth per the ASTM D 3273.
- ✓ **DURABLE MARBLE FINISH.** BASWAphon Coatings are made of a crushed marble aggregate.
- ✓ **FACTORY COATED & SANDED SUPPORTING PANEL.** No onsite panel sanding. Panel will not separate or compress. Beveled panel edges require no taping or glue; no telegraphing seams.
- ✓ **OVERNIGHT DRYING TIMES.** Typical drying time between coats is overnight.
- ✓ **LIGHT WEIGHT.** Approximately 1.5 lbs per square foot.
- ✓ **LEED CONTRIBUTION POINTS IN 9 CATEGORIES.** Up to 95% recycled materials, SDS friendly, high light reflectance and a high R-value. No VOCs; compliant with the California Section 01350.
- ✓ **FIELD APPLIED BY CERTIFIED, LOCAL INSTALLERS.** Installation takes 4 to 5 days; no field measurements, no shop drawings.
- ✓ **IN STOCK AND READY FOR IMMEDIATELY DELIVERY.**
- ✓ **CLASS A FIRE RATED.**
- ✓ **NO DRYWALL BLOCKING.** Not required for light fixtures, diffusers or terminations.
- ✓ **ACCESS PANELS.** Trimless access panels up to 8'x 8' available with BASWAphon Finish on the face.

CREATING AN INTELLIGIBLE SPACE

Reverberation has an important impact on speech intelligibility, affecting safety, health, learning, and quality of life.

By absorbing sound waves, BASWaphon makes conversation clearer, even in harsh situations, by reducing reverberation time. BASWaphon delivers premium acoustical environments to a variety of high end commercial, retail and residential spaces while protecting design aesthetic.

BASWA acoustic provides customers with a premium material backed by consistent, reliable service. BASWaphon is continuously improved upon to ensure the smoothest, highest quality surface available with the highest NRC Ratings in the industry.

HOW BASWAPHON WORKS

High frequency sound absorption is achieved by allowing sound wave energy to pass through the micro pores in the finished surface, thereafter, dissipating it into heat energy in the mineral wool. Low frequency sound absorption is accomplished when sound wave energy hits the finished surface, causing the "skin" to vibrate diaphragmatically against the mineral wool panel, creating a "spring" action. Again, this transforms sound energy into heat energy

RESIDENTIAL APPLICATIONS

BASWA acoustic offers the same high performance sound absorbent materials for home applications. Thousands of clients worldwide already enjoy the added comfort and clean look of having BASWaphon or other BASWA acoustic materials in their most important spaces.

Through innovation, BASWA acoustic provides a level of combined comfort and aesthetics, previously mutually exclusive. These materials are sourced locally when they can be, from the Greek Islands to the state of Georgia. Projects will range from Carnegie Hall to your home.

NOISE REDUCTION COEFFICIENT (NRC) RATING

The BASWaphon Sound Absorbing Plaster System is available in 3 thicknesses.

THICKNESSES

30MM – 0.75 - 0.80 NRC RATING

40MM – 0.85 - 0.95 NRC RATING

70MM – 0.90 - 1.05 NRC RATING

NRC Ratings vary with the Finish. Coefficient testing is calculated following ASTM C423 Sound Absorption Test guidelines for Type "A" and "E" Mountings. Certified Test Data reflects actual installation conditions and is supplied by an Independent Third Party.

SOUND TRANSMISSION CLASS (STC) RATINGS

BASWaphon provides an additional 5 to 7 points to an STC Rated Assembly.

Test data available upon request.

LEED CONTRIBUTION CREDITS

The BASWaphon System may provide Contribution Points in the following LEED Categories:

EA CREDIT 1 – OPTIMIZED ENERGY PERFORMANCE
MR CREDIT 2 – CONSTRUCTION WASTE MANAGEMENT
MR CREDIT 4 – RECYCLED CONTENT
MR CREDIT 5 – REGIONAL MATERIALS
IEQ CREDIT 3.1 – GREEN CLEANING
IEQ CREDIT 4 – LOW EMITTING MATERIALS
IEQ CREDIT 7.1 – THERMAL COMFORT
IEQ CREDIT 8.1/2.4 – DAYLIGHT AND VIEWS
EQ CREDIT 9 – ENHANCED ACOUSTICAL PERFORMANCE

The system consists of up to 95% recycled content and emits no harmful off-gassing (VOCs). SDS friendly, with high light reflectance and a high R-value.

BASWaphon Top Coat and Base are manufactured in Cleveland, Ohio. Certified Test Data and LEED submittals are available upon request.

BASWA PHON BASE



BASWA Phon Base has a smooth, white, seamless, finely structured and relatively mechanically resistant surface with an interesting price performance ratio. Mold & mildew resistant finish, perfect for high humidity spaces

✓ **BASWA PHON BASE FEATURES**

- One coat system
- Grain size of final layer 0.7 mm
- Short installation time
- Standard colour ~ NCS S 0500-N
- Surface quality maximum Q3

✓ **SEAMLESS AT FLAT, CURVED, DOMED AND VAULTED SURFACES**

Up to 5,000 square feet without a control joint can be applied to at or complex surfaces

✓ **MATCH ANY COLOUR**

No adverse effects on acoustical performance



Expedia Group, the Angel Building

BASWA PHON FINE



As a One coat system, BASWA Phon Fine has a the Smoothest, Finest Troweled Finish surface structure. The relatively short installation times are a further advantage. Cost competitive finish ideal for spaces without significant critical lighting.

✓ **BASWA PHON FINE FEATURES**

- One coat system
- Grain size of final layer 0.5 mm
- Fine surface structure
- Short installation time
- Standard colour ~ NCS S 0500-N

✓ **SEAMLESS AT FLAT, CURVED, DOMED AND VAULTED SURFACES**

Up to 5,000 square feet without a control joint can be applied to at or complex surfaces

✓ **MATCH ANY COLOUR**

No adverse aects on acoustical performance



University of Cambridge, Crausaz Wordsworth Building

BASWA PHON CLASSIC



BASWA Phon Classic This tried and tested system can be applied universally, and combines all the advantages of the BASWA Phon acoustic systems. The system provides the highest degree of design freedom, enabling the creation of the very finest surface structure.

✓ **BASWA PHON CLASSIC FEATURES**

- Two coat system
- Grain size of nal layer 0.3 mm
- Grain size of base layer 0.7 mm
- Finest surface structure
- Standard colour ~ NCS S 0500-N
- Surface quality maximum Q3

✓ **SEAMLESS AT FLAT, CURVED, DOMED AND VAULTED SURFACES**

Up to 5,000 square feet without a control joint can be applied to at or complex surfaces

✓ **MATCH ANY COLOUR**

No adverse aects on acoustical performance



BASWA PHON CLASSIC FINE



Smoothest, Finest Troweled Finish. Durable and Cleanable. Continues to set aesthetic and performance standards for seamless acoustical products.

✓ **BASWA PHON CLASSIC FINE FEATURES**

- Two coat system
- Grain size of final layer 0.5 mm
- Grain size of base layer 0.7 mm
- Finest surface structure
- Standard colour ~ NCS S 0500-N
- Surface quality maximum Q3

✓ **SEAMLESS AT FLAT, CURVED, DOMED AND VAULTED SURFACES**

Up to 5,000 square feet without a control joint can be applied to flat or complex surfaces

✓ **MATCH ANY COLOUR**

No adverse effects on acoustical performance



Lincoln Castle, Magna Carta

BASWA COOL SYSTEM



The active BASWA Cool system uses an embedded capillary pipe system to provide thermal comfort. It can be installed directly in concrete ceilings or lowered systems.

BASWA Cool evenly cools or heats a space with a fraction of the energy typically used in a forced air system. This System is available with any BASWA Finish or colour.

✓ **BASWA COOL FEATURES**

- Excellent broadband sound absorption
- Cooling results at $\Delta 8K$; $79W / m^2$ (according to DIN EN 14240:2004 - 04)
- Heating results at $\Delta 15K$; $117W / m^2$ (according to DIN EN 14037- 02)
- Standard colour \sim NCS S 0500-N
- Construction material class B-s1-d0 according to DIN EN 13501-1

✓ **SEAMLESS AT FLAT AND CURVED SURFACES**

Up to 5,000 square feet without a control joint can be applied to at Flat or Curved surfaces.

✓ **MATCH ANY COLOUR**

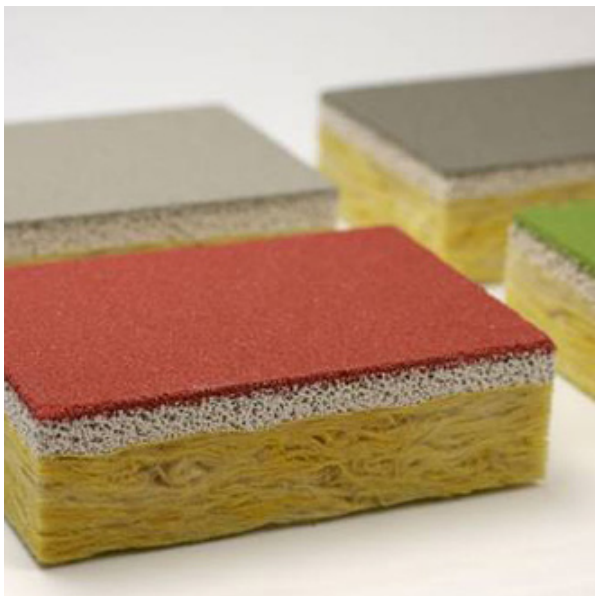
No adverse aects on acoustical performance



Hamilton Acoustic Office

BASWA COLOURS

WEISS · WHITE	SCHWARZ · BLACK		GELB · YELLOW	GELB ROT · YELLOW RED	ROT · RED	GRÜN · GREEN	BLAU · BLUE		
BC W02.1	BC S01.1	BC M S01.1	BC Y01.1	BC YR01.1	BC M YR01.1	BC R01.1	BC G01.1	BC M G01.1	BC B01.1
BC W03.1	BC S02.1	BC M S02.1	BC Y02.1	BC YR02.1	BC M YR02.1	BC R02.1	BC G02.1	BC M G02.1	BC B02.1
BC W04.1	BC S03.1	BC M S03.1	BC Y03.1	BC YR03.1	BC M YR03.1	BC R03.1	BC G03.1	BC M G03.1	BC B03.1
BC W05.1	BC S04.1	MIXED BLACK BC M S04.1	BC Y04.1	BC YR04.1	MIXED YELLOW RED BC M YR04.1	BC R04.1	BC G04.1	MIXED GREEN BC M G04.1	BC B04.1
BC W06.1	BC S05.1	BC M S05.1	BC Y05.1	BC YR05.1	BC M YR05.1	BC R05.1	BC G05.1	BC M G05.1	BC B05.1
BC W07.1	BC S06.1	BC M S06.1	BC Y06.1	BC YR06.1	BC M YR06.1	BC R06.1	BC G06.1	BC M G06.1	BC B06.1
BC W08.1	BC S07.1	BC M S07.1	BC Y07.1	BC YR07.1	BC M YR07.1	BC R07.1	BC G07.1		BC B07.1
BC W09.1	BC S08.1	BC M S08.1			BC M YR08.1	BC R08.1			BC B08.1
BC W10.1	BC S09.1	BC M S09.1			BC M YR09.1	BC R09.1			BC B09.1
	BC S10.1				BC R10.1				

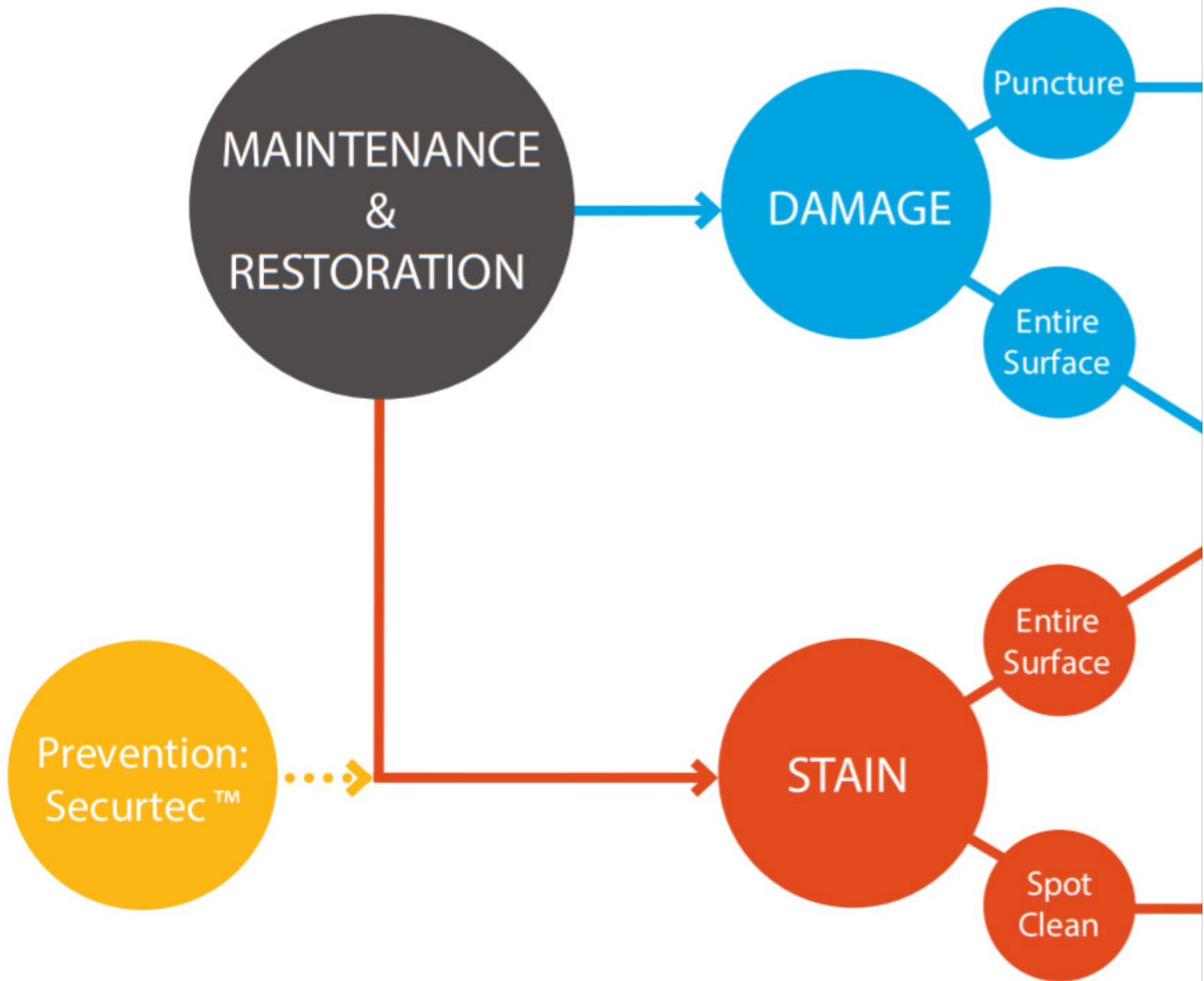


For the creation of colored acoustic surfaces, the BASWA coating masses are custom-dyed at the plant as ordered. The BASWA acoustic AG lab determines the color recipes from scratch for each new color. Given the specific properties of porous surfaces, each color recipe is visually compared with the original sample. The pigmenting products are mixed into the coating masses; no further additives are used. Subsequently, the dyed coating masses are processed at the construction site. BASWA coating masses can be custom dyed in almost all hues available.

BASWA acoustic AG offers a balanced choice of colors; custom tailored colors are mixed to match for a fee.



Expedia Project, The Angel Building



Securtec™

A stain guard formulated for BASWA products designed to protect against dirt or surface pollutants like food or water, with nominal affect on acoustical properties. Once applied, liquids will bead on a BASWaphon Finish.

BASWA Clean™

A surface cleaner for BASWA Phon Finishes that lifts out stains, dirt, and odors. This environmentally friendly cleaner begins working immediately for quick, noticeable results.

BASWA Fresh™

A surface refreshing spray used for either small or large area restoration of surfaces with visible color alterations due to excessive dirt or staining.



Innovation. Under normal circumstances, BASWA products age evenly and do not require any maintenance. However, surfaces may be damaged by punctures, stains, or water. Similar to most building materials, a BASWA surface may accumulate a build up of dust particles.

Acoustical ceilings perform through the porosity of their surface and therefore can not be cleaned with conventional products. For the same reason, such surfaces lose their acoustical absorption when painted with traditional paints. BASWA acoustic has developed a range of techniques and products, which allow for removal of staining or repair of surface damages without affecting the acoustical performance.

For more than 25 years BASWA acoustic has been developing and distributing materials that improve room acoustics. BASWA acoustic cares about the customer's needs and is constantly engaged in new development.

INSTALLING BASWA PHON

1.

PREPARING THE SURFACE

BASWA systems can be adhered directly onto any stable substrate including concrete or suspended substructures (consistent of minerals, such as drywall).



2.

ADHERING THE ACOUSTIC PANELS

The BASWA System acoustic panels are easily applied to the stable substrate with an adhesive. To form to curved, domed or vaulted surfaces the panels are cut and prepared accordingly on site and flexed to meet the unique shape.



3.

FILLING THE JOINTS

After panels are adhered, joints between the panels are skillfully filled and then sanded so that they are not visible upon completion of this step.



4.

APPLYING THE COLOUR

The unique surface color whether standard or specially matched and chosen is manufactured in a controlled environment and sent to the jobsite for mixing. The BASWA Tint Additive is simply added to each pail of finish coat material and carefully batched to ensure a consistent finished color.



5.

APPLICATION OF THE BASE COAT

Once the surface is completely dry, a certified and trained BASWA Installer skillfully, trowel applies the base coat to ensure a monolithic finish. In single-layer systems, this is the final layer.



6.

APPLICATION OF THE FINAL LAYER

After drying of the previous step is complete, the final layer is skillfully installed. Bringing seamless sound absorption to the space, while maintaining an aesthetic appeal and contributing to wellbeing.

