



**Autex
Acoustics®**

Composition®

Distributed by



Data Sheet

Product overview

Composition® is a durable, high-performance acoustic wallcovering designed as a paint or wallpaper alternative. Made from 100% polyester fibre, Composition has a velvety soft hook-and-loop receptive pile, and pinnable self-healing surface.

Specification

(Wall) treatment shall be Autex Acoustics Composition® made from non-woven needle-punched polyester containing not less than 60% recycled material as manufactured by Autex

Install as per Autex Acoustics recommendations. If Composition is to be specified for use other than as a wallcovering, please seek guidance from your account manager.

Roll 10 - 12 mm (nom.) depth, colour (L), sound absorption: Class D, NRC 0.40, Fire ratings: ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003: Classification: Group 1, BS EN 13501-1:2018: B - s1, d0.

Colour options

 Raspberry	 Calypso	 Wasabi	 Sapphire
 Brilliant Orange	 Blush	 Lime	 Stonewash
 Citrus	 Myst	 Jade	 Stately
 Clay	 Sanz	 Granny Smith	 Atlantis
 Simba	 Fawn	 Avocado	 Electric Blue
 Blazing Red	 Civic	 Spearmint	 Porcelain
 Vintage	 Silver	 Sage	 Ink
 Chilli Red	 Koala	 Azure	 Lightsout
 Theatre	 Bark	 Emerald	 Charcoal
 Phantom	 Cinder	 Octane	 Noir



Product specifications

Product name	Composition®
Composition	100% polyester fibre (PET)
Roll dimensions	1.22 m x 25 m
Tolerance	(+ 5 mm) (+ 10 mm)
Thickness	10 - 12 mm
Weight	1680 gsm

Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website. If Composition is to be specified for use other than as a wallcovering, please seek guidance from your account manager.

Thermal performance

10 - 12 mm R0.22 (@15°C)

Acoustic performance

Composition is specifically designed to reduce and control reverberated noise and echo in building interiors

Product specifications

Fire ratings

Composition has been evaluated using the following test methods:

ISO 9705: 1993

Classification: Group 1-S

Smoke production rate:

<5.0m²/s

As required by NZBC C/VM2

AS ISO 9705 - 2003

Classification: Group 1

(SMOGR_{ARC}): <100m²/s²

Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637:2015, as required by BCA Specification C110-4 FI 4894 and FAR 4055

BS EN 13501-1:2018

Classification: B-s1,d0

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011.

EUI-21-000135-C

ASTM E84 - 14

Class A, FS:5 - SD:25

Report RJ3297-9R1

VOC emissions

Autex Acoustics polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered a low VOC product.

VOC concentration:

0.009 mg/m³ (7 days)

Water vapour sorption

ASTM C1104 / C1104M-13a

Test conditions: 49°C, 95%RH

Water vapour absorbed and adsorbed after

4 days: 0.4% by weight

Impact resistance

ISO 7892:1988

Hard body impact

There is no surface damage or penetration to Composition when subjected to hard body impacts. When adhered to 10 mm plasterboard, the system can resist a 9 joule impact. This is equivalent to the impact of a 0.5 kg object dropped from a 2 m height. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5 kg object dropped from a 0.5 m height.

Soft body impact

There is no surface damage or penetration to Composition when subjected to soft body impacts. When adhered to 10 mm plasterboard, the system can resist a 70 joule impact. This is equivalent to the impact of a 50 kg object dropped from a 150 mm height.

Microbial resistance

ASTM G21-15

Growth rating: 0 (No growth)

Composition does not promote the growth of moulds and mildew.

Colour fastness to light

Composition is suitable for indoor use only.

Light fastness is dependent on use and exposure.

Composition has been evaluated to the following standard:

ISO 105-B02:2014

Rating: 6 (Highest = 7)

Colour fastness to rubbing

ISO 105-X12:2016

Dry rating: 4-5 (Highest = 5)

Wet rating: 4-5 (Highest = 5)

Moisture absorption

Polyester fibre when exposed to an atmosphere of 50°C at 90% relative humidity for four days showed moisture absorption of less than 0.03% by weight. Polyester is not affected by moisture and will not rot or deteriorate in intended use situations.

Fabric care

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and excessive amounts of water as this will affect the finish. Use carpet or upholstery shampoo as directed. Blot with a clean dry cloth after each application of solution.

Custom printed Composition requires the services of a specialist cleaning company. Refer to the Composition Care and Maintenance Guide for more information.

Pattern repeat

Non-woven. No pattern repeat but product has directional grain. Product may vary from samples and batch to batch due to fibre blending and lay-up, which is an inherent feature of this product.

Environmental

Autex Acoustics is committed to best practice through our ISO 14001 certified Environmental Management Systems.

Composition contains a minimum of 60% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

Composition is manufactured from 100% polyester fibre and does not contain formaldehyde binders. Autex Acoustics polyester fibre supports safer indoor air quality and will not become a potential airborne pollutant.

Service

For further information about Composition or any other Autex Acoustics product, please contact your account manager or visit our website.



Acoustic performance

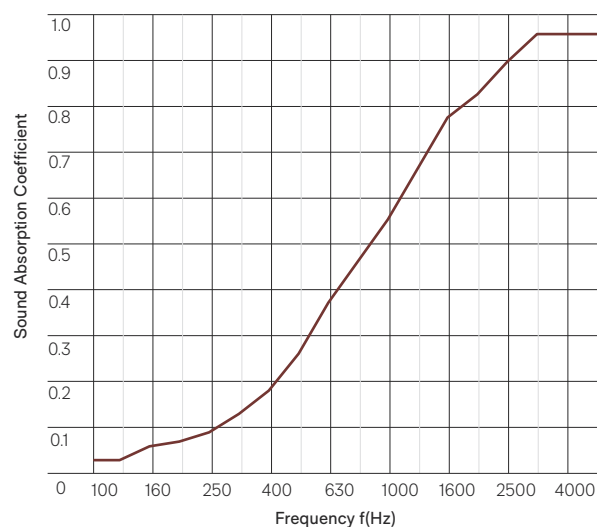
Composition is specifically designed to reduce and control reverberated noise and echo in building interiors.

Minimum Noise Reduction Coefficient 0.40

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 10 - 12 mm Composition	0.05	0.10	0.25	0.55	0.80	0.95	0.40

Table presents the practical sound absorption coefficients as according to ISO 11654. Graph presents third octave sound absorption coefficients (according to ISO 354 measurement of sound absorption in a reverberation room.) The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz, and rounded to the nearest 0.05.

Sound Absorption Coefficients according to ISO 354.
University of Auckland Testing Service
Composition 10 - 12 mm - Test No. T0814-2b.



Light reflectance values by colour

Composition is suitable for indoor use only. LRVs were measured in accordance with BS 8493:2008+A1:2010

Civic	57	Koala	12
Citrus	49	Avocado	11
Myst	42	Sage	9
Sanz	36	Emerald	8
Wasabi	33	Sapphire	8
Lime	29	Atlantis	8
Azure	24	Blazing Red	8
Silver	23	Raspberry	8
Jade	22	Vintage	6
Porcelain	22	Chilli Red	5
Calypso	13	Cinder	5
Fawn	20	Bark	5
Clay	20	Octane	5
Granny Smith	20	Phantom	4
Stone wash	19	Theatre	3
Simba	18	Stately	3
Brilliant Orange	15	Charcoal	3
Spearmint	13	Lightsout	3
Calypso	13	Ink	3
Electric Blue	12	Noir	1



Caring for the environment

Composition is manufactured using 100% polyester fibre and contains a minimum of 60% recycled fibre (from PET plastics). Our products are designed to be recycled at the end of their life too.

We have continual improvement programmes in which we implement a range of initiatives to mitigate the environmental 'hotspots' that we have identified. Our products are GreenRate Level A, Health Product Declaration (HPD), and CDHP Standard certified.

Composition is DeclareSM certified to be Red List free and can be used in Living Building Challenge projects. Autex has a high functioning Environmental Management System (ISO 14001) to enhance our environmental performance and contribute to sustainable development.



Declare.



Distributed by



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