

SpecAqua 2K PU Flexi Floors & Lines Matt

Water based, flexible, aliphatic polyurethane coating for interior floors & walls

Description:

A water based, zero VOC, two component, flexible aliphatic polyurethane coating available in a Matt finish. Available in clear or colours.

Intended Uses:

SpecAqua 2K PU Flexi Floors & Lines Matt is designed for use on interior floors & walls as a flexible, abrasion resistant finish coat that is easy to clean & highly resistant to a range of chemicals, food spills & fats.

SpecAqua 2K PU Flexi Floors & Lines Matt can be used on residential, commercial & industrial floors in high foot traffic areas in solid colours or as a clear sealer.

This product can also be used in sports flooring applications as the finishcoat in the polyurethane indoor court system, and for demarcations & area marking on PVC floor tiles.

The coating has zero VOC and is excellent for healthcare / clean room environments, no odours are emitted during installation. This product is applied in multiple layers by roller, brush or airless spray application

This product is suitable for application to a wide range of suitably primed surfaces including:

- PVC – Rigid and flexible e.g. vinyl flooring, flooring decals / prints / designs.
- Concrete – Raw, polished, screeds and decorative cement flooring.
- Epoxies or other flooring resins as a matt finish topcoat.
- Hardwood flooring, skirtings, and claddings.

Features & Benefits:

- Rapid hardening time – can take light foot traffic after 8 hours.
- Excellent transparency.
- Excellent chemical resistance.
- Zero VOC, water based.
- Excellent flow & levelling properties.
- Highly resistant to mechanical abrasion.
- Enhances the appearance of the surface.
- High flexibility.

Chemical Resistance:

Test Chemicals	Test Duration	Test Results**
Ethanol (48%)	1 hour	4
NH ₄ OH (10%)	1 hour	4
Water Deionized	10 days	5
Coffee	16 hours	5
Tea (1%)	16 hours	5
Red Wine	16 hours	4
Cola	16 hours	5
Na ₂ CO ₃	2 min	5
Fatty Acid	10 days	5
Brake Fluid (DOT 4)	10 days	5
Skydrol	10 days	5

FLOOR COATINGS: POLYURETHANE FLOOR COATINGS

Page 1 of 3

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

Last Update:
23/01/2026
Issue Date:
08/09/2023

Technical Data:

Colour	Clear or colours		
Available Finish	Matt	5 – 10%	
Kit Pack Size	1 Litre Kit		5 Litre Kit
	• 830 ml (Comp.A) • 170 ml (Comp.B – PU Activator Aqua XP)		• 4.15 Litre (Comp.A) • 850 ml (Comp.B – PU Activator Aqua XP)
Volume Solids	42 +/-3% on clear		
Typical Film Thickness	• 80 – 120µm Total DFT (Apply in 2 – 3 coats) • 40µm DFT per coat (100µm WFT per coat)		
Theoretical Coverage	10.5 m²/ Litre @ 40µm DFT (per coat)		
Method of Application	Short nap roller or airless spray		
Pot Life After Mixing	1 hour @ 25°C		
Drying Time (@ 25°C / 60% RH)	• Touch dry – 20 minutes • Light walk on dry – 6 hours • Minimum overcoating – 6 hours • Maximum overcoating – 24 hours • Full cure – 7 days		
Application & Ground Temperature	• Minimum – 10°C • Maximum – 35°C • Maximum RH – 80%		
Thinning	Typically, not required, but a maximum 10% water should be added to ease application or to better penetrate dense surfaces.		

Advice on Application: (Maximum Substrate Humidity)

Substrate	Ambient Humidity Before & After Curing
Reinforced Concrete Floor	2 – 3%
Pumice Concrete	3 – 5%
Cementitious Screed (Depending on mixing ratio)	1.5 – 3%
Aerated Concrete Screed, Cement Bound	2.5 – 2.5%
Magnesia Flooring	8.5 – 12%
Anhydride & Gypsum Screeds	Less than 0.5%
Chipboard, Hardboard & Wooden Floors	8 – 12%

Typical Flooring Systems:

Concrete Floors:

Layer	Product	Consumption
Primer	Deep Penetrating Primer WB	6 m ² / Lt @ 30µm DFT
Topcoat	SpecAqua 2K PU Flexi Floors & Lines Matt	10.5 m ² / Lt @ 40µm DFT (Apply 2 coats)

Sports Flooring:

Layer	Product	Consumption
Primer	Epoxy WB Primer Clear	7 m ² / Lt @ 50µm DFT
Body Coat	SpecFloor PU SL Sports Flooring 115 Beige Comp. A	2.22 Kg/ m ² @ 1.5mm DFT
Topcoat	SpecAqua 2K PU Flexi Floors & Lines Matt	10.5 m ² / Lt @ 40µm DFT (Apply 2 coats)

Surface Preparation:

Concrete

Ensure the surface to be coated is clean, dry within the above parameter. The substrate in most cases needs to be mechanically prepared to remove any cementitious laitance off the surfaces which may negatively affect the adhesion of the coating.

Vinyl/PVC

If the vinyl is new, clean with light detergent and water, dry the surface. Do not attempt to sand the surface as scratch marks will appear in the clear coat.

Previously Painted Surfaces or Newly Painted.

Ensure the surface is properly cured, not chalking and in sound condition. Clean the surface with diluted Hydrosolve Degreaser and water. Allow to dry.

Application:

Mixing	Stir component A, taking care not to entrain air. Stir to ensure Component A is completely uniform. While stirring, add the entire contents of Component B into Component A and stir continuously for 3 minutes. Mixed product should be used within the specified Pot Life. If used passed the recommended pot life, performance and application properties will be sacrificed.
Application	Roller – Ribbon & Roll Allocate enough mixed material for a measured-out surface area. Pour the mixed material in a ribbon style from edge to edge, starting at the furthestmost point. Using a short nap or mohair roller back roll the poured-out ribbon. Allow to dry and sand/de-nib the surface using 220 – 320 grit sandpaper. Vacuum away excess dirt. For the second coat, apply at 90° to the first in the exact same fashion. Allow to dry and determine if a 3rd coat is required. If required, repaint the sanding and cleaning process. Airless Spray A tip size of 11 – 13 thou, capable of producing a fine finish at lower the normal pressures e.g. Graco fine finish tips.

Storage:

- Shelf Life: 12 months at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight, away from sources of heat or ignition.

Precautions:

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using this product.