



Verna Epoxy pool 355SY

Description: Verna Epoxy pool 355SY is tow-component thixotropic, solvent free epoxy resin coating, abrasion and

chemical resistance designed to maximize pot-life and adhesion without the use of solvents or diluents. It

is supplied as colored base and hardener in pre-weighted quantities ready for onsite mixing and use.

Recommended use: Swimming pools

Water tanks

Concrete protection

Protection of steel and other metallic surfaces.

Advantages: Solvent free

Long pot-Life

Excellent adhesion

Excellent resistance to chemicals

Excellent mechanical properties, high tensile and tear strength, abrasion resistance.

Inhibits fungal and bacterial growth

PHYSICAL CONSTANTS:

Shade nos/Colors: Blue Finish: glossy Volume solids, %: 100

Theoretical spreading rate: 3 m²/kg @200 micron/12 mils

Flash point: 100 °C [212 °F] Specific gravity: 1.43 kg/litter

Fully cured: 7 days @ 25°C / 5 days @ 30°C VOC content: ≤ 20 g/ltr ASTM D2369

Shore D Hardness: 80 ± 5

ASTM D2240

Compressive strength: ≥ 70 MPa @ 7 days

BS 6319-2

Flexural strength: ≥ 40 MPa @ 7 days

EN 13892-2

Tensile strength: ≥ 14 MPa @ 7 days

BS 6319-7

≥ 2.0 MPa @ 7 days Bond strength on (concrete failure) C25/30 concrete:

ASTM D4541

EN 1542

Impact resistance: ≥ 9.8 N.m

EN ISO 6272

Water absorption: < 0.25%

ASTM D570

Safety:

Taber abrasion resistance: ≤ 60 milligrams

(1000 g, 1000 cycle) ASTM D4060, weight Loss CS17 wheel

Handle with care. Before and during use, observe all safety labels on packaging and paint containers,

consult VERNA Safety Data Sheets and follow all local or national safety regulations.

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Product data

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APPLICATION DETAILS:

Version, mixed product: 355SY

BASE 355S9: CURING AGENT 955SY

Mixing ratio: 100: 23 by weight

Stir CURING AGENT before adding it to the BASE.

Application method: Roll / Brush Thinner (max.vol.): Do not dilute

Pot life: 60 - 80 min @ 25°C / 30 - 50 min @ 35°C

Cleaning of tools: Verna tool cleaner 99610

Overcoat interval, min: 12 hr @ 25°C /6hr@35°C

Overcoat interval, max: 36 hr @ 25°C /18hr@35°C

SURFACE PREPARATION: The substrate must be clean, dry, even, dense and free from oil, grease, dust and other contaminants. A

clean surface will ensure maximum adhesion between the substrate and the coating.

Concrete must have a minimum compressive strength of 25 N/mm² and a maximum moisture content of

4%, for concrete 28 days old or more.

Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment. Acid etching can be used only in well ventilated areas. Areas deeply contaminated

by oil or grease, such areas should be treated by hot compressed air

PRECEDING COAT: Verna SF epoxy floor coat is designed to be used without a primer. However, for highly porous substrates,

Vernafloor Primer 051SY is recommended.

MIXING: To avoid inconsistent workability and pot life, make sure that the materials to be used are stored in

shaded area and protected from extremes of temperatures, for at least 24 hours prior to application. Prior to mixing, stir well the individual components of the coloured base and hardener to eliminate any deposits. Add the entire contents of the hardener container to the base container and mix thoroughly using a slow speed drill mixer (i.e. 300 - 500 rpm) fitted with helix type paddle for approximately 3 minutes until uniform colour is achieved. Take care to ensure that the bottom and sides of the hardener part are

thoroughly scraped.

Partial mixing is not allowed.

COATING APPLICATIONS: Start paint application when a relative humidity of maximum 85%.

Use brush or lamb wool roller to apply the mixed Verna epoxy pool 355SY onto the prepared surfaces. A minimum film thickness of 200 microns must be applied per one coat of Verna epoxy pool 355SY at 3 m²/kg per coat. second should be applied at a right angle to the first coat when the first coat has initially

dried

Film thicknesses: A minimum thickness of 200 microns per coat should be applied to obtain a smooth finish.

Possible Problems after Application:

 The pool is filled too soon before the paint is completely cured, causing a blush over the surface which looks like fading or chalking.

- Super-chlorinated water may cause a bleached-outlook.

 Shock of calcium hypochlorite can cause a white, bleached look to the paint film, leaving a whitish deposit

- Iron in the water from rust in the filter system may leave deposits and stain the film.

- All epoxies will chalk to some degree due to exposure to UV rays of the sun.

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afte	er full cure (7 days (@ 25C°), ASTM D1308 (Spot - test @ 1 hr)	
Organic Acids		Inorganic Bases	
Lactic Acid 10%	R	Sodium Hydroxide 50%	RR
Lactic Acid 10%	R	Ammonia Solution 10%	R
Lactic Acid 10%	RS + SS	Potassium Hydroxide 50%	RR
Lactic Acid 10%	RS + SS	Aquous Solutions	
Lactic Acid 10%	R	Sodium Chloride sat	R
Lactic Acid 10%	RS	Hydrogen Peroxide 2%	R
Solvents		Tap Water	R
White Spirit	R	Chlorinated Water	R
Xylene	R	Dead Sea Water	R
Toluene	R	Oils & Fuels	
Acetone	R	Benzyl Alcohol	SS
Ethanol	R	Brake Fluid	R
Ethyl acetate	R	Engine Oil	R
N propanol	R	Diesel	R
Methoxy propanol	R	Kerosene	R
Inorganic Acids		Detergents & Soaps	R
Sulphuric Acid 25%	RS + SS	R: Resistant	
Sulphuric Acid 40%	RS + SS	RS: Resistant with slight discoloration SS: Slight softening	
Phosphoric Acid 20%	RS + SS		
Hydrochloric Acid 10%	RS + SS		
Hydrochloric Acid 32%	RS + SS		
Nitric Acid 10%	R		

This Product Data Sheet supersedes those previously issued.

For explanations, definitions and scope, see "Explanatory Notes" available. Data, specifications, directions and recommendations given in this data sheet represent only test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use of the Products herein must be determined exclusively by the Buyer and/or User.

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