



Selection & Specification Data

Description	High performance, solvent free, mechanically resistant, epoxy resin flooring. Different grades of slip resistance can be achieved by inclusion of graded aggregate between coats.
Uses	The UniFloor 5 flooring system is used as a hard wearing colored floor coating in areas such as factories, warehouses, plant and storerooms where high resistance against chemical attack is required.
Benefits	<ul style="list-style-type: none"> •Mechanically resistant, heavy duty •Hard wearing & abrasion resistant •Solvent free, low odor •Aesthetically attractive •Seamless and hygienic finish •Low maintenance •Nonylphenol free
Substrate Requirements	Concrete should be free from laitance, dust and other contamination. The substrate should be dry to 75% RH and free from rising damp and ground water pressure.
Components	<p>Mixed Kit Size: 3 Gallons part A, Resin 1 Gallons part B, Hardener</p> <p>Coverage rates will vary with surface profile and temperature.</p> <p>Non-slip finishes: Various grades of quartz, aluminium oxide, glass spheres or silicon carbide can be incorporated to provide a textured surface.</p>
Technical Information	<p>The figures that follow are typical properties achieved in laboratory tests at 70°F and at 50% Relative Humidity.</p> <p>Volume Solids 100%</p> <p>Thermal Resistance Tolerant up to 160°F</p> <p>Fire Resistance BS 476:Part 7: Surface spread of flame: Class 1</p> <p>Slip Resistance TRRL Pendulum Slip Test Dry 80 Wet 35</p> <p>Water Permeability Nil – Karsten test (impermeable)</p> <p>Abrasion Resistance ASTM D4060 Taber Abrader: 5 mg loss per 1000 cycles (1 kg load using CS17 wheels) BS 8204-2 Grade AR2</p> <p>Compressive Strength > 11,600 psi (ASTM C579)</p> <p>Flexural Strength > 8,700 psi (ASTM C580)</p> <p>Tensile Strength > 2,175 psi (ASTM C307)</p> <p>Bond Strength Greater than cohesive strength of 3,625 psi concrete, > 220 psi.</p>

Speed of Cure:	<u>50°F</u>	<u>70°F</u>	<u>85°F</u>
Light traffic	48 hrs	16 hrs	12 hrs
Full traffic	72 hrs	48 hrs	40 hrs
Full chemical cure	12 days	7 days	7 days

Recoat Times:	<u>60-80°F</u>
Minimum recoat time	6 hours
Maximum recoat time	24 hours

Aftercare - Cleaning and Maintenance:

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent.



Application Instructions

Preparation/Substrate:

Surfaces to be coated should be sound and provide adequate strength for the proposed end use (minimum 3500 psi compressive strength). The surface profile and levels should be appropriate for the system to be applied.

The concrete substrate moisture emission should not exceed 3 pounds per 1000ft over 24 hours when tested prior to application, and be free from excessive rising moisture. A light shot blasting should be employed to remove laitance. Irregularities, damage and cracks are filled with epoxy filler. All residues must be removed to provide a dry, dust free open textured surface.

Contact us for advice if there are impurities, such as oils etc., in the concrete. Check the relative humidity of floors at ground level. Follow our instructions for connections to grid drains, cesspools, pipes and pipe inlets.

Priming:

Priming is not necessary, unless the substrate is very porous, in which case a single application of UniFloor 1 (at 200 square feet per gallon) is applied.

Mixing:

UniFloor 5 in 3 gallon units, consisting of the Resin (Part A - 2 gallons), Hardener (Part B - 1 gallon).

Add hardener B to base A and mix for 2 minutes.

Application:

UniFloor 5 is spread with rubber squeegee and finished with a roller. The second coat is applied when the first coat is dry. Subsequent coats should be applied no later than 24 hours after previous coats.

Application Conditions:

Condition	Material	Surface	Ambient	Humidity
Recommended Minimum	60°F (16°C)	50°F (10°C)	60°F (16°C)	0%
Recommended Maximum	80°F (27°C)	80°F (27°C)	80°F (27°C)	90%

Anti-slip texture:

If an anti-slip finish is required, scatter silica sand into the first coat of UniFloor 5. Once this coat is tack free, remove the excess sand and apply the second coat. Degree of texture and coverage of UniFloor 5 is dependant on the grade of sand used.

Note that:

Union Compound products are often multiple-component systems. Poor mixing, or incorrect mixing procedures, can result in irregular and incomplete hardening, which in turn can result in an inferior final result.



Packaging, Handling, & Storage

Packaging	3.1 and 12.6 gallon kits
Shipping Weight (Approx.)	9.4 lb/gal. (4.3 kg/gal.)
Flash Point (Setaflash)	Part A: >200°F (92°C) Part B: >200°F (92°C)
Storage Temperature	40 to 100°F (4-38°C)
Part A:	Resin (2 or 4 Gallons)
Part B:	Hardner (1 or 2 Gallons)
Shelf Life (Part A):	12 Months
Shelf Life (Part B):	12 Months

* Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.