



Isocrete 1500P (1/4"-2")

A micro-fiber reinforced, cementitious, single component self-leveling surfacing compound. Designed for use on new or worn concrete substrates as an underlayment or finished wear surface that can be polished to achieve a high gloss finish. Isocrete 1500P is easy-to-use, provides excellent adhesion and long-term durability.



Fast Cure:

Can be coated in 24 hours cure time, can be dry polished in 24 hours.



Strong:

Durable surface achieving a compressive strength of 7,000 psi.



Micro-Fiber Enhanced:

Improves various physical properties and reduces shrinkage.



Decorative/Polished Topping:

Can be dyed or integrally colored, can be extended with decorative aggregate.



Self-Leveling Underlayment:

Can be covered with a variety of floor finishes including epoxy terrazzo, resinous flooring, tile, vinyl and carpet.

Application Suitability:

Office Buildings	✓
Retail Stores	✓
Government Buildings	✓
Schools & Colleges	✓
Hospitals/Medical Facilities	✓
Airports	✓
Restaurants	✓

COMPRESSIVE STRENGTH:

ASTM C 109	4 hours: 2,000 psi
	24 hours: 4,500 psi
	7 days: 5,500 psi
	28 days: 7,000 psi

FLEXURAL STRENGTH:

ASTM C 348	7 days: 1200 psi
	28 days: 1450 psi

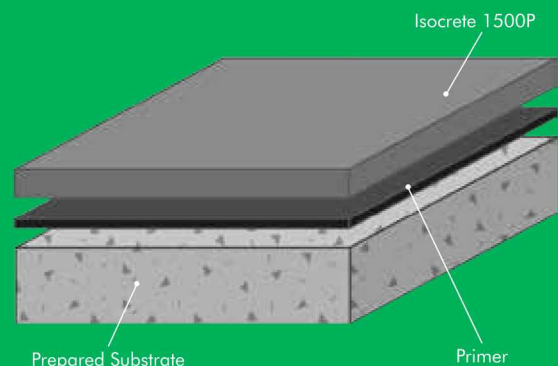
SHRINKAGE:

ASTM C 157	3 days: -0.033%
	28 days: -0.052%

FLOW TIME:	15-20 minutes
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WORKING TIME:	20-30 minutes
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SPEED OF CURE:	50°F	75°F	90°F
Final Set Time		2-3 hrs	
Foot Traffic/Dry Polishing		24 hrs	20 hrs
Full Chemical Cure	35 days	28 days	21 days



Products Included In This System

Primers: Isocrete Primer Plus at 150-250 sq ft/gal
OR: Key 502/Flowprime Epoxy Primer at 80 sq ft/gal plus 30 mesh sand broadcast to excess

Mortar:* Isocrete 1500P at 20 sq ft/bag yields 1/4"

Mortar consists of 50 lb bag Isocrete 1500P and 4.5 to 5 quarts of cool potable water, yielding 0.5 cubic feet. An additional pint of water may be added if required.

*Yield with 50% extension by weight with 3/8" clean pea gravel: 0.6 cubic foot (for applications from >2" up to 3" depth). 1/4" is minimum placement thickness for non-polished topping applications. 3/8" is minimum placement thickness for polishing applications and requires epoxy primer plus sand broadcast.

Coverages listed are theoretical, actual coverages may vary based on substrate and site variations. Detailed application instructions are available upon request.

Installation

Installation should be carried out by a FlowResin or Key Resin preferred contractor with a documented quality assurance record. Obtain details of our preferred contractor network from our sales team or by inquiring through our website. Detailed application instructions are also available upon request.

Substrate Requirements

Concrete or screed substrate should have a minimum of 3,000 psi compressive strength, free from laitance, dust and other contamination. The substrate should be dry to ASTM requirements and free from excessive moisture vapor emissions.

Protection on Completion

Ensure the Isocrete 1500P topping is not subject to drafts during the first 6 hours of curing as this may lead to cracking and crazing. Tape up doorways with polythene to prevent air movement. Prevent contamination by following trades, e.g. plastering, including water spillage.

Technical Profile

The figures and test results shown overleaf are typical properties achieved in laboratory tests at 75°F and at 50% Relative Humidity.

Environmental Health & Safety

The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless surface reduce the need for repairs and maintenance. Environmental and health considerations are controlled during manufacture and application of the products by Key Resin/FlowResin staff and fully trained application teams.

Drying Time

Contact Key Resin/FlowResin Technical Service for cure time requirements that will vary depending on placement thickness, temperature, subsequent installed sealers or flooring materials and other factors.

Warranty

Key Resin/FlowResin products are guaranteed against defective materials and manufacture and are sold subject to our standard 'Warranty, Terms and Conditions of Sale', copies of which can be obtained on request. Warranty does not cover suitability, fit for purpose or any consequential or related damages. Please review warranty in detail before installing the products.

Disclaimer

Any recommendation or suggestion relating to the use of products manufactured by Key Resin/FlowResin, whether in its technical literature or in response to a specific inquiry, is based upon data believed to be reliable, however the products and information are intended for use by applicators having requisite skill and know-how in the industry and therefore it is for the applicator to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that the applicator has done so at its sole discretion and risk.

(04/22/2022)