

QUICKFLOOR

Fast Cure Multipurpose Reactive Resin Flooring System

DESCRIPTION: QUICKFLOOR is 100% fast reactive and quick curing methyl methacrylate (MMA) resin base seamless multipurpose flooring system. QUICKFLOOR resin is blended with specially graded silica quartz aggregates and special additives to produce a floor system that is hard, hard yet flexible, flexible and durable floor. Resistant to impact, abrasion, thermal shock, with very good acid & alkali resistant, Hydrocarbon resistant, food acids, Floor system is non porous, hygienic and easily cleaned. QUICKFLOOR is fully bonded to the concrete to prevent water creep. Can be applied as smooth solid color finish, broadcast with color quarts, color chips with clear coats.

FEATURES

- Fast cure, full strength in less than 2 hours
- UV Resistance, Application: Indoor & outdoor
- Durable
- High Mechanical load bearing
- High Impact Strength
- Abrasion Resistant
- High Elasticity
- Excellent Chemical Resistance
- Seamless, no cold joint
- Cures at low temperature
- Can be used for wide temperature range from -30 to +90 C

TYPICAL USE:

- Exterior or interior non-slip flooring.
- Decorative non-slip flooring.
- Food and beverage plants, Meat & abattoirs
- Bottling plants, breweries
- Freezers, chillers, cold storages
- Dairy, Bakery, Sea food processing plant
- Fish Processing Plant
- Commercial Kitchens, laundries. Supermarkets: Bakeries, Fish, Meat etc.
- Toilets, changing rooms, sports facilities for hard-wear ability.
- Food process floors where a high degree of hygiene is required.
- Chemical, Pharma, Caustic-Chlorine Plant
- Suitable for use in dry or wet situation including ramps.

PHYSICAL FEATURES:

- QUICKFLOOR is a monolithic floor topping based on fast reactive resin. This resin system offers the following properties.
- **Very Quick Cure:** Full system may be installed within a 3-6hr period. (Depending on ambient temperature and floor size).
- **Low Temperature application:** The system will cure down to minus 25°C. (Special techniques needed).
- Excellent chemical resistance.
- Excellent abrasion resistance.
- Excellent adhesion to properly prepared substrates.
- Easily cleaned.
- Excellent slip resistance.
- Good resistance to thermal shock. When cured, will perform at all in-service temperature ranges. Range: -30°C to +90°C. However thicker toppings will perform better.
- Cured film is non-toxic.
- Weight per m² @ 3mm thickness: 10kgs
- Minimum thickness: 2mm to 8mm
- Color: Natural or other colors dependant on aggregate selection.

PHYSICAL PROPERTIES

- Volume solid: 100%
- Pot Life@ 20° C: 15-20 minutes
- Cure Time @ 20° C: 60 to 120 Minutes
- Tensile Strength: 15MPa
- Compressive strength: 45MPa
- Elongation at Break: % 1.1
- Tensile Bond Strength: > 3.5 MPa
- Impact Strength: Nm 8
- Moisture absorption: 0.04%

CAUTION Adequate cross ventilation should be provided. Follow the hazardous materials identification system guide for proper personal protective equipments to be use while handling & application of this product. If sub-base & material temp. is above 30° C, **DO NOT APPLY** this material.

CHEMIPROTECT ENGINEERS

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CHEMICAL RESISTANCE CHART

Test procedure involves total immersion of the cured sample in a test medium at 25 Deg C. The sample was observed for chemical attack and hardness throughout the testing period. The results below were taken after 3 weeks. Exposure:

Test Media	Conc.	QUICKFLOOR
ACIDS		
Hydrochloric Acid	10%	U
Sulphuric Acid	10%	U
	25%	U
Acetic Acid	10%	U
	50%	M
Nitric Acid	10%	M
Citric Acid	10%	U
Lactic Acid	90%	U
Phosphoric Acid	30%	U
ALKALIS		
Potassium Hydroxide	30%	U
Caustic Soda	50%	U
SOLVENTS		
Ethanol		A
Toluene		D
Acetone		D
Isopropanol		A
PETROCHEMICALS		
Kerosene		U
DISINFECTANTS & CLEANERS		
Detergent (DET 18)	100%	U
Bleach (2.5% Sod Hyd Cl)		U
MEKP - M50		U
SALT SOLUTION		
Brine	20%	U
OTHERS		
Sugar Syrup		U
Distilled Water	30%	U

LEGEND

U = Unaffected (i.e. after 3 week exposure the samples have not changed)

M = Marked (Short term exposure, the media will leave a mark on the sample)

A = Attacked (Short or long term exposure, the mechanical properties will deteriorate)

D = Destroy (Short or long term exposure, damage will occur)

PREPARATION

All substrates shall be stable and solid.

Note: The ability of new or existing floors to take the loads as a result of the CHEMIPROTECT QUICKFLOOR must be checked prior to installing. All control joints junction cracks in the substrate etc are to be properly treated.

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CONCRETE must be mechanically trowel led finish. Then preparation is achieved by captive shot blasting or other coarse abrasive methods. Eg Diamond grinding. QUICKFLOOR will not adhere to curing or release agents. Concrete shall be cured for a minimum of 28 days prior to laying QUICKFLOOR. The moisture content shall be less than 5%

Plywood or Timber: consult CHEMIPROTECT ENGINEERS for more information. Note: If the substrate is an above grade slab and waterproofing is required the tank the floor and cove upstands with a layer of 450gsm CSM fiberglass. This will provide a seamless waterproofing layer. Ensure the floor is clean. Dry and prepared as above. QUICKFLOOR can be applied over any common resin floor topping as long as it thoroughly checked for soundness and grinding or Shot blasting is applied to the old surface. Consult us before installing QUICKFLOOR on any suspended floor slabs.

BOND TEST: Prior to full application of primer, a bond test shall be conducted to check adequacy of substrate preparation and bond. The bond of the primer to the sub-base should be greater than the tensile strength of the sub-base. A successful test shows sub-base material and sheared aggregate bonded fully to the sample.

APPLICATION :

This product is applied by the: Roller coat & broadcast (spread & sprinkle) technique or self level & Broadcast technique.

Prime the properly prepared floor areas with TWO coats of QUICKFLOOR Primer. Coverage rate and number of coats will vary depending on the porosity of the substrate, Coverage 3 - 4m²/Kg./coat. Primer and its hardener are to be thoroughly mixed in the correct proportions.

SELF LEVEL BASE COAT

To apply by the self level method the resin is mixed with a special blend of aggregates (refer to CHEMIPROTECT) and this is then mixed with catalyst normally. This mixture is then applied with notched trowel on floor. This will help "pit and hole" filling and gives a more even surface. Broadcast aggregates of the chosen type to complete.

SEAL COAT: Once finished and hardened apply 1 coat of QUICKFLOOR Topcoat at a spread rate no greater than 3.5m²/kg/coat. Topcoat must be applied to the QUICKFLOOR base coat promptly to avoid contamination.

JOINTS: All concrete control and construction joints should be filled with suitable hard & flexible Epoxy mortar.

HEALTH & SAFETY: Overalls are recommended when using this product. Wear gloves if this suits the user as the material will bond strongly to skin.

- Fumes may be cloying in enclosed areas. The use of fans to provide positive forced air draft and/ or extraction is recommended. The levels of fumes have been shown to be well below recommended levels.
- Flammable 3C. Erect "No Smoking" signs. No welding or naked flames permitted during installation. Have fire extinguishers readily available.

SHELF LIFE: 12 months in unopened containers. After this period suitability for use should be checked in consultation with CHEMIPROTECT ENGINEERS.

PACKGING: Resin: 18kg metal pails, 180 kg drums. Catalyst: 1 KG, 25kg boxes. Filler: 25 Kgs, Color Quartz: 25 Kgs.

Maintenance and Cleaning

Repairs can be undertaken with further new QUICKFLOOR applied directly or use Epoxy repair system.

Cleaning: QUICKFLOOR floor is cleaned with stiff bristled brushes and detergents. The stiff bristle brushes and commercial detergents will remove dirt from the non-slip surface that a soft mop will not. The waxed nature of our top coating system may attract dirt during the early life of the product. Pay careful attention to cleaning at this stage.

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