



BENEFITS:

- Withstand cold (below 0 °C) and hot (up to 80 °C) temperature (as per products)
- Excellent adhesion to concrete,
- Very low shrinkage contributing to good dimension stability,
- High mechanical strength, both tensile and compressive,
- Resistance to oils, fuel, and many chemicals.
- Abrasion resistance.

PRODUCT DESCRIPTION:

FloorCEM[®] PUC-13 is a high performance three component polyurethane modified inorganic self-smoothing screed designed as surface damp-proof high performance flooring.

USES:

Concrete and plastered surfaces in factories, warehouses, chemical plants, workshops, clean rooms, cold storage, food processing areas, service areas, etc. where moisture relative humidity is up 100%. Some of the application areas are:

- **Food preparation**-Commercial, hospital and prison kitchens, fast food, airline catering, ready meals
- **Food processing**-Dairies, bakeries, meat processing, pickling, sauces, preserves, freezers, wash bays
- **Pharmaceuticals**-Primary and secondary manufacture, research, clean rooms, pilot plants
- **Industrial**-Tanker reception, process, bonded stores, chemical processing areas
- **Refrigeration & Meat Packing**
- **Beverage, spirit and distilleries**-Breweries, distilleries, soft drinks, fruit juice, mineral water, bottling and canning
- **Engineering**-Plating, vehicle maintenance and all heavy use areas

TECHNICAL PROPERTIES:

- High compressive strength
- Resistant to wear and abrasion
- Waterproof
- Crack-free
- Resistant against gasoline, diesel oil, mineral oil, freeze-thaw cycles and deicing salts.
- Shock resistant
- No dust formation



PROPERTIES	STANDARD	FLOORCEM® PUC-P36
Flexural Strength, N/mm ² (28 Days)	EN13892-2	>12
Compressive Strength, N/mm ² (28 Days)	EN13892-2	>50
Bond strength, N/mm ²	EN13892-8	>1.5
Thickness, mm		1.0-3.0 mm
Pot Life at 25 °C, minutes		8-12
Working Temperature		0 to 80 °C
Consumption, 18 Kg pack		2.2-2.4 kg/m ² /4 mm thk
Foot Traffic, Hours		24

Colours offered are: Dark Gray, Light Gray, Cream, Blue, Green, Red.

PRODUCT SYSTEM:

For long term durability and success of the **FloorCEM® PUC-13** products following materials should be used.

1. Repair of Floor/Wall: **FloorTop® PUC Repair**
2. Coving between Floor and Wall: **DeckCoat PUC Reglet**
3. Primer: **FloorCEM® PUC PRIMER** at 50 ft²/Kg
4. Basecoat: **FloorCEM® PUC**
5. Top Finishes: Optional Floorkrete Products to choose from **Floorthane** category
6. For Antistatic flooring choose, **Electroshield® ULD 5414 C**

APPLICATION DATA:

PREPARATION OF SUBSTRATE:

The substrate must be sound clean, and free of oil. Sandblasting is most effective. If, however, this not possible, vigorous wire-brushing or roughening with coarse emery paper may be resorted to. Scarifying method should be another method for surface profile preparation. Degreasing with a solvent like acetone, benzene or toluene is then carried out. For better performance use **MultiKleen®** cleaners.

APPLICATION:

The **FloorCEM® PUC PRIMER** is first applied on concrete surfaces as a primer.

FloorCEM PUC-13: Mixing of the component A and component B is carried out with an improvised mechanical mixer by using a drill motor, with suitable stirrer attached in place of drill bit. Component C is added to get flowable/trowel grade screed. Please refer separate '**Application Guideline for FloorCEM® PUC**'. Apply material at 1-3 mm (Use FloorCem® PUC-13) OR 6-9 mm (Use FloorCem® PUC-69) or 9-12 mm (Use FloorCem® PUC-912) thickness. For desired finishes, choose from suitable product range Floorkrete product range.



FloorCEM® PUC-13

PU Modified Inorganic Hybrid Screed for Cold & Hot Temperature Application

STORAGE AND HANDLING:

The material, when stored in their original containers and not exposed to undue heat or humidity as in outdoor open sheds, will have a minimum shelf life of 6 months. Store in dry, frost-free conditions at moderate temperatures not greater than 25 °C. As far as possible, direct contact mixed material with the skin should be avoided as they might cause irritation on sensitive skins. It is advisable to wash off the material immediately if it does come in contact with the skin.

PACKAGING AND COVERAGE:

Pack Size: 18 kg composite pack, coverage: 1.7 to 2.0 Kg/m²/mm thickness

CLEANING:

All tools should be cleaned with solvent immediately after use.

STORAGE:

Store in dry, frost-free conditions at moderate temperatures not greater than 25 °C.

WARRANTY

Multichem warrants **FloorCEM®** products to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of **FloorCEM®** Products.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of **FloorCEM®** products.

Because of constant improvement of manufacturing techniques and formulations, Company reserves rights to change this datasheet and its contents without prior notice.



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