

# KUT FLOOR SEALER

## Concrete Surface Hardener And Dust Proofer

FLR-12-1110



### DESCRIPTION

**KUT FLOOR SEALER** is a highly effective chemical hardener and dustproofing agent for new or existing concrete. When applied to cured concrete it reacts with latent cement particles to densify harden and dustproof the surface. **KUT FLOOR SEALER**, is magnesium fluorosilicate modified ready to use concentrate with a powerful wetting agent.

### USES

**KUT FLOOR SEALER** is formulated for use on cured concrete floors to provide greater wear resistance, increased resistance to chemical attack and to minimize penetration of oil and grease. **KUT FLOOR SEALER** penetrates and reacts with latent particles on and below the concrete surface. This reaction results in the strengthening and hardening of the concrete. The **KUT FLOOR SEALER** may be used on new concrete that is at least 10 days old (preferably 28 days) or on older concretes. Concrete slabs that have been steel trowelled and have received an application of **KUT FLOOR SEALER** will attain a very smooth and polished appearance as they carry traffic, resulting in floors that are easy to clean and maintain. **KUT FLOOR SEALER** treated concrete surface can be painted or coated with adhesives for tile or carpeting.

### APPLICATION

#### SURFACE PREPARATION:

**Old concrete:** Surface must be structurally sound, clean, dry, free of dust, dirt, laitance, efflorescence, curing compounds, paint, oil, grease and other contaminants. The preferred method of surface preparation is abrasive blasting or shotblasting. Remove oil, grease smear and asphalt residue with trisodium phosphate or a strong detergent. For oil contaminated surfaces use steam cleaning in conjunction with a strong emulsifying detergent. Rinse thoroughly with potable water. If it is not possible to sand blast or shotblast acid etch with a 15% Hydrochloric acid solution followed by pressure washing or flushing the surface with copious amounts of water to neutralize the surface. Always test surface pH to insure all acid has been neutralized prior to

application. Surface defects, voids, cracks and joints should be properly treated and repaired before application of **KUT FLOOR SEALER**.

**New Concrete:** Fresh concrete should be wet cured or treated with non film forming curing compound such as **KUT CURE WB**. The concrete must be at least 10 days old (preferably 28 days) before application of **KUT FLOOR SEALER**. The surface should be dry and clean. If membrane curing or sealing compounds have been used, or if paint, oil, grease, etc. are present, they must be removed by chemical or mechanical means as described above in the old concrete section.

#### MIXING:

For typical concrete surfaces dilute **KUT FLOOR SEALER** in a plastic or line metal container in the following proportions:

#### Normal Concrete:

- First coat: 1 part **KUT FLOOR SEALER**: 4 parts water
- Second coat: 1 part **KUT FLOOR SEALER**: 3 parts water

#### Terrazo:

- Single coat: 2 parts **KUT FLOOR SEALER**: 5 parts water

Extremely porous floors may require an additional coat of undiluted **KUT FLOOR SEALER** to saturate fully and densify the surface.

#### APPLICATION INSTRUCTION:

Apply the **KUT FLOOR SEALER** solution over the surface to be treated by low pressure/airless spray equipment, garden type sprayer, soft fiber broom, squeegee or mop. The **KUT FLOOR SEALER** solution should be applied to the point of saturation, spreading it evenly and uniformly. Do not allow the solution to puddle in low spots. Allow the material to soak into the floor. After 10 – 15 minutes remove any excess from the surface with mops or other suitable means. Permit each coat to dry to the touch (typically 2 – 4 hours at 75° F and 50% relative Humidity) before application of subsequent coats. Open to foot traffic in 8 – 12 hours (at 75° F and 50% relative humidity) and light vehicular traffic after 72 hours.



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## TYPICAL PROPERTIES

Property	Test Method	Results	
<b>Abrasion Resistance,</b>			
depth of wear in (mm)	ASTM C 779*	30 min	60 min
Untreated Concrete		0.0264 (0.7)	0.0428 (1.1)
Kut Floor Sealer		0.0025	0.0106
Treated		(0.06)	(0.27)

\*Concrete was cured for 28 days.

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

## COVERAGE

Surface Type	Coverage m <sup>2</sup> /ltr of undiluted KUT FLOOR SEALER	Dilution Coats KUT FLOOR SEALER	ratio by Vol.
Normal Concrete	6 To 12*	2	1: 4 1st Coat 1: 3 2nd Coat
Terrazo	15 to 25	1	1:5 Single Coat

\***Note:** Coverage is depends on the porosity of the substrate.

**Packaging:** 20 and 200kg containers

**Storage:** Shelf life 12 months when stored In dry conditions at moderate temperature and humidity. Protect the product from frost.

## PRECAUTIONS

**Cautions:** Before applying **KUT FLOOR SEALER** to the entire surface, test small area to verify appearance and penetration. Do not use on glazed, very dense surfaces or over ceramics. Apply in temperatures between 60 – 85°F. High humidity conditions and very hot/windy days will adversely affect drying and performance of **KUT FLOOR SEALER**. Do not apply if rain is likely within 8 – 12 hours after application. The sealer will darken the surface and my highlight or enhance surface imperfections. Do not allow to freeze. Use with adequate ventilation.

**Cleaning:** Clean up tools and equipment with water immediately. Dried sealer is very difficult to remove, and may require mechanical abrasion for removal. mixes containing this products must not be emptied into drainage systems.

**Fire resistance:** The product is not flammable.

## HEALTH AND SAFETY

**KUT FLOOR SEALER** is non-toxic but is mildly alkaline. Gloves should be worn during application. Splashes to the skin or eyes should be removed with clean water. In the event of prolonged Irritation, seek medical advice.

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