SHERWIN WILLIAMS SAUDI ARABIA

# EPOXY FLOOR SCREED

UYF - Series

## DESCRIPTION

Epoxy Floor Screed is Polyamine based epoxy. It is two parts solvent free combination of epoxy resin. It has an exceptional resistance to a wide range of chemicals and to abrasion.

## RECOMMENDED USES

It can be applied in areas for heavy engineering & chemical plants, in refineries, power plants, paint workshop, battery manufacturing plants and many others.

## CHARACTERISTICS

| | |
|---|---|
| **Standard** | ASTM C880-74, BS 1881,4 Clause 2, ASTM C3079-83, ASTM C579-82, BS4551, and ASTM D696. |
| **Pot Life** | 30-45 minutes for the primer depending on the ambient temperature |
| **Touch Dry** | 1.5-3 hours for the screed depending on the ambient temperature |
| **Full Cure** | 3 – 7 days |
| **Compressive strength** | 72 $N/mm^2$ |
| **Flexural Strength** | 15.5 $N/mm^2$ |
| **Color** | Grey |
| **Tensile strength** | 7 $N/mm^2$ |
| **Shelf Life** | 18 months, unopened at 25 $^oC$ |

## PERFORMANCE SPECIFICATIONS

| | |
|---|---|
| Phosphoric acid upto 60% | **Excellent** |
| Hydrochloric acid upto 60% | **Excellent** |
| Sulfuric acid upto 50% | **Excellent** |
| Nitric acid upto 28% | **Excellent** |
| Citric acid upto 10% | **Excellent** |
| Lactic acid upto 10% | **Excellent** |
| Acetic acid upto 50% | **Excellent** |
| Ammonia upto 10% | **Excellent** |
| Sodium Hydroxide upto 50% | **Excellent** |
| Acetone | **Not Tolerable** |
| Xylene | **Excellent** |
| Oil & Grease | **Excellent** |
| Petrol | **Excellent** |
| White Sprite | **Excellent** |
| Butanol | **Good** |
| All kind Salts & Aqueous Solutions | **Excellent** |

## FEATURES

- It has an exceptional resistance to a wide range of chemicals and to abrasion.
- It provides extremely high strength floor topping with excellent resistance to mechanical wear.
- Epoxy Floor Screed produces a non-slip floor finish which offers good gripping surface to both vehicular & pedestrian traffic.
- It can be applied at thickness from 4 mm up to 30 mm. It can also be applied at thicker layer depending on the purpose of the application.
- It is advisable that Epoxy Floor Screed to be sealed & coated with Hi-Solids Catalyzed Epoxy specially in areas where high degree of cleaning is required.

## SURFACE PREPARATIONS

- **New Concrete Floors:**

1. Concrete should be at least 28 days old.

2. Laitance deposits should be removed by mechanical scrubbing, grit blasting or grinding. It is also possible to use Acid Etch instead for small areas. Concrete floor should be thoroughly wasted with water. Concrete surface must be dry before the application of Epoxy Floor Screed.

- **Old Concrete Floors:**

1. Mechanical Cleaning is a must especially where oil, grease & other debris & coating has occurred. This cleaning should go as deep as several mm to make sure that concrete floor is ready to have good adhesion with Epoxy Floor Screed.

2. Prior to application of Epoxy Floor Screed, priming of the concrete floor is an important issue. It is highly recommended to use Kem Epoxy Primer Sealer. Which is a solvent free epoxy resin & compatible with Epoxy Floor Screed. To prime the surface, mix part A with part B well, use stiff brush to apply mixed primer in a thin continuous film to the concrete surface. It is highly recommended to apply a second priming coat on porous concrete surface in order to prevent air release from porous substrate which may cause bubble in the final applied screed. Apply screed when the primer coat is till tacky.


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## MIXING

Add part A (the activator) into part B(base) & mix with part C (the Aggregate) well with strong & low speed mixer. Then mix the primer (A+B) since it has shorter pot life.

Make sure that the contents are thoroughly mixed. Mixed material should be applied within its pot life.

## APPLICATION METHODS

In order to apply mixed Epoxy Floor Screed properly, follow the following instructions:

1. Apply the primer prior to the application of the based.
2. Spread the mixed Epoxy Floor Screed to the uniform thickness on the prime concrete Surface (while tack) using the edge of a steel trowel.
3. Tamp the material with a wooden float to ensure complete compaction.
4. Use a steel trowel to obtain a final even finished texture.

It is worth to mention that you can get smooth & even finished surface by adding little water or thinner but on the trowel occasionally.

- **Sealing:**

In areas where cleaning is required, it is recommended to use Hi-Solids Catalyzed Epoxy as an excellent coat & sealant to the screed at the same time. Application of Hi-Solids Catalyzed Epoxy should taken place when the applied epoxy screed is 3-7 days old.

- **Coverage:**

Epoxy Floor Screed primer 1 kg kit (A+B) is included in the kit covers from 3-4.5 square meter. Epoxy Floor Screed one kit of 35 kg (A+B+C) covers approximately 3 - 4.5 square meter at thickness of 4 mm (4000 Microns).

- **Packing:**

36 kg =(A+B+C) + Primer (A+B)

## SPECIAL TIPS

Excessive reduction of material can affect the film build, appearance, and adhesion. Any further specific technical information can be obtained from SWSA if you email ask@sherwinwilliams.ae

*For further information on recommended products please refer to Sherwin Williams Saudi Arabia Painting & Coatings System Guide.

**For further information on surface preparation methods and application procedures please refer to Sherwin Williams Saudi Arabia Surface Preparation bulletin.

## SAFETY PRECAUTIONS

Spray under well-ventilated conditions. Do not breathe or inhale mist. When spraying, wear air mask. Avoid skin contact. Spillage on skin should immediately be removed with suitable cleanser, soap and water. Eyes should be flushed with water and medical attention sought immediately.


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