



DATASHEET

FloorScreed[®] NE-5344

Novolac based High Build 100% Solids Epoxy Floor Screed/Coating

BENEFITS:

- 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:

FloorScreed[®] NE-5344 is a high build 3-component epoxy flooring system coating a 100% solids epoxy Novolac ideal for harsh chemical and solvent resistant applications. Normal epoxies are known for their high chemical resistance to other polymer types. However, some in-service performance demands exceed whatever the best epoxy products can deliver. **FloorScreed[®] NE-5344** is ideal for such most demanding environments being used as troweled mortar, slurry binder, and coating for concrete and steel. Some of the extremely corrosive areas where resistance to 98% sulfuric acid, methylene chloride or 30% Nitric acid or other strong caustics are needed.

USES:

- ♣ All potable water tank storage
- ♣ Marine structures
- ♣ All industries handling corrosive chemicals such as H₂SO₄, HNO₃, NaOH, Methylene Chloride etc.
- ♣ Bridge decks, tunnels
- ♣ Sewage and water treatment plants
- ♣ Reservoirs and storage tanks
- ♣ Swimming pools, marine aquariums
- ♣ Parking slabs and driveways
- ♣ Concrete walls, floors, patios and roofs
- ♣ Hydro electric and power generation stations.

PROPERTIES:

Appearance: Pale yellow liquid, silver grey, green, sky blue, cream and many other colour shades.

Nature: three components (resin, hardener and filler)

Pot Life at 30 °C: 30-60 minutes

Maximum Time between the coats: 12 hours

Light traffic use: 24 hours

Full Traffic use: 48 hours

Compressive strength: 70 N/mm²

Flexural Strength: 45 N/mm²



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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.

APPLICATION:

Mixing of the resin and hardener may be carried out manually with a wooden paddle or metal rod. Add filler to mixed two components. Filler component may be added to the resin, if required. Alternatively, an improvised mechanical mixer can be used by using a drill motor, with suitable stirrer attached in place of drill bit. A Mechanical planetary mixer has been found to be particularly effective.

Since good wetting of the surface is required to obtain high bond strength, the Primer is first applied on the mental and concrete surfaces. Before the primer coat sets, mix resin and hardener together and then add filler to the mix. Product is normally spread with a trowel or squeegee and back-rolled with a medium or short nap roller. Care should be taken to minimize the entrapment of air caused by over-rolling.

For complete installation instructions, contact your Floorkrete representative.

STORAGE AND HANDLIG:

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: 20 kg composite pack, coverage: 2 kg/mm/m²

CLEANING:

Once the resin has set hard, it is very difficult to remove it. Before this occurs, it should be scraped off the tools. The resin still sticking to the tools or mixing vessels can be removed with a solvent like toluene, xylene or acetone.

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WARRANTY

Multichem warrants **FloorScreed NE-5344** 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 **FloorScreed NE-5344** 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 **FloorScreed NE5344** products.

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

