

Product Data Sheet For:

PLEXIBLEND RTF

PRODUCT DESCRIPTION

PlexiBlend RTF is a flooring system @ 3/16" thick comprised of a hybrid-urethane flooring system. This urethane flooring system is comprised of urethane mortar base along with selected synthetic and coarse rubber aggregate, two-component UV clear 100% aliphatic urethane grout coat, and two-component water based aliphatic polyurethane top coat. Together they provide exceptional comfort level, superior acoustic ability along with ease of cleanliness. The system combines excellent aesthetic qualities with wear and stain resistance. In addition, the urethane flexibility can be designed from 50% to 200% flexibility.

USES AND APPLICATIONS

PlexiBlend RTF is ideal for lobbies, entrance ways, hallways, offices, laboratories and holding areas in healthcare, educational and recreational facilities, as well as, light manufacturing areas such as pharmaceutical facilities. It provides an ergonomic, noise reducing surface which is ideal for foot and cart traffic.

SUBSTRATE

PlexiBlend RTF can be applied over properly prepared concrete, wood and carbon steel surfaces. They are not recommended and should not be used on gypsum products, mastics, glues, brick/tile surfaces and asphalted surfaces.

PlexiBlend RTF Base

A three component, UV resistant, resilient urethane mortar consisting of urethane resin and hardener along with selected synthetic and coarse rubber aggregate.

PlexiBlend RTF Grout Coat

Consists of two-component UV clear 100% aliphatic urethane or polyaspartic urethane grout coat.

PlexiCrest WB or PlexiCrest A Top Coats

Consists of a two-component solvent or water based non-reflective aliphatic polyurethane coating.

PHYSICAL CHARACTERISTICS

Hardness	ASTM D-2240, Shore A	80-88
Bond Strength	ASTM D-5441	> 450 psi
Static Load Limit	ASTM F-970	0.002 in./0.05 mm
Indentation Resistance	ASTM F-1914	Residual of 1.3% (140 lb./64 kg.load)
Abrasion Resistance	ASTM D-3389	0.004 g max. weight loss (H-18, 500 g, 1,000 cycles)
Flammability	ASTM E-648	Class 1
Noise Reduction Coefficient	ASTM C-423	0.05
Slip Resistance Index	ASTM F-1679	0.6 dry/ 0.5 wet
Cure Time	(@ 77 F°/25°C)	12 hours for foot traffic 48 hours for normal operations
Impact Resistance	ASTM D-4226	>160 in./lbs.
Heat Resistance	ASTM F-1514	DELTA E < 8 Passes

COLORS

PlexiBlend RTF is available in 12 standard base colors and extensive color pallet. Refer to the *PlexiBlend* RTF color chart.

SUBSTRATE PREPARATION

Proper preparation is critical to ensure an adequate bond. The substrate must be relatively level, deviations of more than 1/8 inch per foot may result in irregularities which will require patching. The substrate must be dry and free of all was, grease, oils, fats, soil, loose or foreign materials and laitance. Laitance and unbonded cement particles must be removed by mechanical methods, i.e., abrasive blasting or scarifying. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent and rinsing with clean water. The surface must show open pores throughout and have a sandpaper texture. For recommendations or additional information regarding substrate preparation, contact Plexi-Chemie's Technical Department.

PRIMING

PlexiBlend RTF system must be primed with **PlexiMVP Primer 101 Urethane Primer**. Allow to tack up then examine the surface and reprime with squeegee and roller. This primer will be tack free in one hour.

APPLICATION

Blend all pre-measured components of the RTF flooring just prior to application. Care must be taken not to over mix materials. The base material is then screed level raked or troweled to finish.

Cure time is from 10-29 hours (depending on temperature). Sand the surface and lightly grind, exposing the synthetic granules and rubber granules. This sanding process is repeated with different grit of sandpaper.

Grout Coat is applied at a minimum of 5-7 mils of **PlexiCrest XP** Urethane and allowed to cure for 3-5 hours.

Apply final topcoat of water based urethane, *PlexiCrest* WB or solvent based urethane **PlexiCrest A**.

RECOMMENDATIONS

- DO NOT attempt to install material if the temperature of the components and substrate are not within 65 to 85 °F/18 to 30°C. **The cure time and application properties of the material are severely affected if the temperatures are outside of this range.**
- DO NOT use water or steam in the vicinity of the application. **Moisture can seriously affect the working time and other properties.**
- The used of NIOSH/MSHA approved respirators and safety glasses are recommended.
- Avoid contact with all liquid materials as they may case skin and/or eye irritation. Workers should cover hands with rubber gloves.
- Use only with adequate ventilation

Notice: The technical data contained herein are true and accurate to the best of our knowledge. All products are offered and sold subject to Plexi-Chemie Standard Conditions of Sale. Published technical data and instructions are subject to change without prior notice.

Before using any Plexi-Chemie product, be sure the Safety Data Sheet is read and understood.