



Technical Data Sheet

Product description
: Flexstone UV is solvent-free, moisture-curing, one-component polyurethane binder that is designed to produce durable and elastic surfaces. This product is aliphatic, provides enhanced light fastness, hydrolytic stability and contains materials that offer increased chemical resistance. When used according to recommendation, bound surfaces offer a combination of high strength and flexibility.

Advantages
: As with any urethane based on aliphatic isocyanates, this product is UV-stable and will not show discoloration after exposure to direct sunlight.

Skid Resistant
Low Maintenance
Easy to Clean
Endless Design Options
Proven Safety and Comfort

Uses
: Decks
Pool Surrounds
Patios
Walkways
Sunrooms
Offices
Home Gyms
Locker Rooms
Play Areas
Fitness Tracks
Porches
Lobbies
Golf Cart Paths
Day Care Center

Technical Properties		
Specific Gravity	ASTM D891	1.05
Density	ASTM D891	8.8 LB/gal
VOC		1.1 g/L
Viscosity	ASTM D4889	6,500 cP
Tensile Strength	ASTM D412	4,000-5,000 psi
Elongation	ASTM D412	400-600%

Application Data	
Type	Aliphatic Polyurethane Binder
Color	Clear to Light Yellow
Cure Type	Single-Component Moisture
Rubber Granules	Top Layer 100 parts by weight Bottom Layer 100 parts by weight
UV Binder	Top Layer 18-22 parts by weight Bottom Layer 15-18 parts by weight
Packaging	5 gallon/50 gallon
Cure to Touch	8 hours

FOR PROFESSIONAL USE ONLY!!

Surface Preparation: Diamond grind or power washing is recommended to remove existing coating and/or to remove dirt and debris from substrate. If you are power washing for prep, E4E Extreme clean is recommended as a safe etch and cleaner.

Mixing: For various applications it's necessary to adjust the binder quantity as well as the added water quantity.

The rubber granules should be dry and free of dirt and debris. High moisture and dirt content can compromise the mechanical properties of the bound surface.

The following process is recommended:
1. Add the rubber to the mixer.
2. Add the binder and mix for the minimum time required (2-3 minutes) to reach a uniform blend.
3. If required, add water or catalyst and mix for an additional 1 – 2 minutes.

Mixing times are heavily dependent on mixer selection.
More efficient mixers will reduce the mix time.

One 55 lb bag of flexstone and one gallon of binder should cover approximately 35-40 sq ft.

Application: Once Substrate is clean and dry, apply primer with acetone sprayer, short nap roller, or brush. Install at approximately 300 sq ft per gallon, protect the surrounding areas.

Do NOT apply more primer than can be coated withing a 90 minute period.

Clean-up/Storage: Binder must be protected against humidity and stored above 50°F. The ideal storage temperature is in the range of 59 – 77°F. Higher storage temperatures over a longer period can shorten the shelf life. The material should be stored in shaded areas when possible.

Storage Life At ideal conditions, the material can be stored for up to six months in the original, unopened packaging. Partially used material should be used quickly or purged thoroughly with nitrogen prior to resealing. When in use, air will be pulled into the product and moisture from humid air will react with the unused material and lead to thickening or skin formation. The use of a desiccant cartridge on the air inlet will remove the moisture and increase the shelf life of partial containers

Full Cure Curing takes place at ambient temperature by reaction with atmospheric moisture. A relative humidity of 40 – 80% is recommended for appropriate cure. Dry conditions (relative humidity less than 30%) can make the addition of water or catalyst necessary. Higher temperature, higher relative humidity and the addition of catalyst will shorten the cure time while lower temperatures and relative humidity will prolong curing. The air, rubber, binder and subsurface temperature should not fall below 50°F during application or curing as cool temperatures can delay the cure and negatively impact the quality of the completed surface.

Precautionary Statement Please read the SDS carefully before use. Prior to application, the user must read and become familiar with the risks and hazards associated with the use of this product. Adherence to the proper safety techniques cannot be overemphasized, including the proper use of Personal Protective Equipment (PPE).

Important Notice

DO NOT let this product get below 32° F. Product will freeze.

