



protective coatings and resin flooring

PRODUCT DATA

FLEXIGEL DECORO SOFT

PRODUCT DESCRIPTION

Flexigel Decoro Soft is a nominal 5 mm (3/16 in.) IMO-approved, resilient, aliphatic polyurethane flooring system. This easy to clean, seamless, waterproof system provides acoustic and thermal insulation and ergonomic comfort, while exhibiting superior aesthetics. These characteristics combined with the system's corrosion, wear and slip resistant properties make it the ideal solution for water parks, children's areas, beach and sports areas. Flexigel Decoro Soft is comprised of a two-component, UV resistant mortar consisting of urethane base and hardener.

SEALER OPTIONS

To protect the integrity of the Flexigel Decoro Soft base, a sealer coat is recommended for most applications. For more information, contact an API USA representative.

PACKAGING

Flexigel Decoro Soft is packaged in units for easy handling. Each unit consists of:

- (1) 5 gallon pail of Polyol
- (1) 3 gallon pail of Isocyanate

COVERAGE

At a nominal 5 mm (3/16 in.) pre-sanded thickness, each unit of Flexigel Decoro Soft will cover approximately 3.3 m² (35 ft²). This amounts to an application rate of 6.1 kg/m².

STORAGE CONDITIONS

Store all components of Flexigel Decoro Soft between 5 and 30°C (41 and 86°F) in a dry area. Avoid excessive heat and direct sunlight. Do not freeze. The shelf lives of the Polyol and Isocyanate are 3 years and 2 years, respectively, in the original, unopened container.

COLOR

Flexigel Decoro Soft is available in a wide range of colors. For more information on color options, contact an API USA representative.

SUBSTRATE

Flexigel Decoro Soft is suitable for application over properly prepared steel, aluminum, concrete or wood surfaces. It is not recommended for use over asphalt, mastic, gypsum-based products, brick or painted surfaces. These must first be removed by mechanical means to expose the substrate prior to overlayment.

PHYSICAL CHARACTERISTICS

Hardness	70
(ASTM D-2240, Shore A)	
Density	1,218.8 kg/m ³
Mix Ratio by Weight	38.9/100
(Hardener/Base)	
Mix Ratio by Volume	2.25/1
(Base/Hardener)	
VOC Content	15 g/L
(ASTM D-2369, Method E)	
Percent Solids	99%
Flash Point	110°C (>230°F)
Pot Life	45 min
(@23°C/74°F)	
Cure Rate	6-8 hours for initial set
(@23°C/74°F)	24 hours for light traffic
	7 days for ultimate physical properties

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens. All sample preparation and testing is conducted in a laboratory environment. Values obtained on field applied materials may vary and certain test methods can only be conducted on lab-made test coupons.

SUBSTRATE PREPERATION

Proper mechanical preparation is critical to ensure an adequate bond and system performance. The substrate must be clean, dry and free of contamination before material application. When applying over aluminum, stainless steel, or galvanized substrates, the use of Primer 5 is required immediately after mechanical preparation. Questions regarding substrate preparation should be directed to an API USA representative.

PRIMING/UNDERLAYMENT

The use of Primer per Metalli is required for all applications of Flexigel Decoro Soft. If leveling is required to even the substrate, Alleggerito Sottofondo is highly recommended. The Alleggerito Sottofondo must be sanded and cleaned prior to Flexigel Decoro Soft application.

MIXING FLEXIGEL DECORO SOFT

Proper mixing is critical for the products to exhibit the proper application, cure and physical properties.

1. If the base shows signs of separation, pre-mix with a heavy-duty, slow-speed drill (400-600 rpm) with a Jiffy Mixer until homogenous.
2. Pour the hardener into the pail containing the base, scraping any residual hardener from the bottom and sides of the pail. Mix for 60 seconds.
3. Pour the contents of the pail into a clean container and mix for an additional 30 seconds. If necessary, add Accelerante while mixing to catalyze the curing process. See the table in the Appendix to determine how much Accelerante to add.

APPLYING FLEXIGEL DECORO SOFT

1. Pour the contents of the pail into a bead on the floor where it can be applied.

Note: It is important to pour subsequent beads of material into existing, fresh Flexigel Decoro Soft already applied. This will eliminate potential batch lines in the finished product.

2. Apply the material to the substrate using a 6 mm x 6 mm (¼ in. x ¼ in.) notched trowel. To achieve the proper, uniform thickness, hold the trowel at approximately 45°, floating the notches over the surface of the substrate.

Note: It is critical to apply the Flexigel Decoro Soft at 3.3 m² (35 ft²) per unit. This will ensure the proper thickness and help to avoid sanding through to the substrate.

3. A spike roller is then used to roll the material. The use of a spike roller allows air to escape and levels the surface of the material. Flexigel Decoro Soft should be spike rolled a minimum of six times (forward and back) to eliminate any entrained air.
4. If incorporating decorative chips into the system, broadcast by hand at the rate of 0.25 kg/m² (or one 25 kg bag per 100 m²) after the material has been troweled and spike rolled.

SANDING FLEXIGEL DECORO SOFT

1. After the Flexigel Decoro Soft has cured, begin the sanding process. Using an approved floor sander with either 36 or 60 grit sandpaper (dependent upon required slip resistance) and an edge sander with 60 grit sandpaper, sand the surface of the Flexigel Decoro Soft to expose the rubber chips.
2. If a smooth finished is desired, sand the surface again, this time using 100 grit sandpaper.
3. Once sanding is complete, vacuum the floor until clean, and prepare to apply the next layer of material. If dust remains on the floor after vacuuming, wipe the floor with rags that are damp with water.

APPLYING SEALER

See the appropriate product data sheet for sealer application instructions.

RECOMMENDATIONS

- Apply only to clean, sound, dry and properly prepared substrates.
- Application and curing times are dependent upon ambient and substrate conditions.
- Minimum ambient and substrate temperatures are 5°C (41°F) at the time of application. However, it is not advisable to apply the material if the temperature is below 10°C (50°F).
- Maximum ambient and substrate temperatures are 35°C (95°F) at the time of application.
- Substrate temperature should be greater than 3°C (5°F) above the dew point.
- Do not apply material if the relative humidity exceeds 85%.
- Dispose of waste materials in accordance with government regulations.
- Clean all equipment immediately after use with scouring pads and acetone. Hardened material will require mechanical means for removal.

PRECAUTIONS

- The use of safety glasses and impervious gloves is required during application.
- Avoid contact with all liquids as they may cause skin and/or eye irritation. In case of contact, flush the area with copious amounts of water for at least 15 minutes and seek medical attention.
- Wash hands thoroughly with soap and warm water after use.
- Use only with adequate ventilation.

APPENDIX – ACCELERANTE

The table below shows how much Accelerante to add to each mix of Flexigel Decoro Soft, by volume and by weight. Add the Accelerante to the mix after transferring to a clean container.

Temperature Range °C (°F)	Volume of Accelerante mL (fl. oz.)	Weight of Accelerante g (oz.)
4-6 (39-43)	29.9 (0.98)	26.0 (0.92)
6-8 (43-46)	27.6 (0.93)	24.0 (0.85)
8-10 (46-50)	25.3 (0.86)	22.0 (0.78)
10-12 (50-54)	24.1 (0.81)	21.0 (0.74)
12-14 (54-57)	23.0 (0.78)	20.0 (0.71)
14-16 (57-61)	21.8 (0.74)	19.0 (0.67)
16-20 (61-68)	11.5 (0.39)	10.0 (0.35)
20-24 (68-75)	6.9 (0.23)	6.0 (0.21)
24-26 (75-79)	4.6 (0.16)	4.0 (0.14)
26-28 (79-82)	3.4 (0.11)	3.0 (0.11)
28-30 (82-86)	1.1 (0.04)	1.0 (0.04)
30-32 (86-90)	0	0

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