

## MARISEAL® 7800

### Aliphatic Polyurethane Coating / Binder Resin Transparent, Matt satin, Solvent Free

#### Product description

The MARISEAL® 7800 is a premium, transparent,  **matt satin**, rigid,  **solvent-free**, one component aliphatic polyurethane coating with high impact and abrasion strength and very good UV stability and color retention, used for as a transparent top-coat for floor coating constructions or as a transparent binder resin for sand carpet floor coating applications.

Cures by reaction with ambient humidity (moisture cure).

#### Advantages

- Simple application (Roller).
- One component.
- Solvent free.
- Transparent.
- UV stable, non-yellowing.
- Gives a glossy and easy-to-clean surface.
- Provides high tensile and impact strength.
- Abrasion resistant.
- Resistant to water and frost.
- Maintains its mechanical properties over a temperature span Of -20°C to +90°C.
- The waterproofed surface can be walked on.
- Provides strong resistance to chemicals.
- Resistant to bacteria and fungus.
- Stops the creation of dust.
- Decorate the surface and improves the working environment.

#### Uses

The MARISEAL® 7800 is mainly used in floor coating applications, either as a transparent, UV stable, solvent free coating over polyurethane or epoxy coatings or as a transparent binder resin for sand carpet floor coating applications.

Due to its properties is widely used for decorative flooring applications in:

- Offices
- Retail Stores
- Show Rooms
- Houses
- Night Clubs
- Restaurants, etc.

#### Consumption

Thin-layer top-coat: 100-120 gr/m<sup>2</sup> in one thin layer.

Binder Resin in Sand carpets: Mix 1 part with 10 parts of silica sand, (by weight)

This coverage is based on practical application onto a smooth surface in optimum conditions. Factors like surface porosity, temperature, humidity, application method and finish required can alter consumption.

#### Colors\*\*\*

The MARISEAL® 7800 is supplied transparent

#### Technical data\*

PROPERTY	RESULTS	TEST METHOD
Composition	Aliphatic Polyurethane Pre-Polymer. Solvent free.	
Hardness (Shore D Scale)	40 ± 5	ASTM D 2240
Adhesion to Concrete	>2 N/mm <sup>2</sup>	ASTM D 903
Solids Content	100 %	CALCULATED
Flash point	> 200°C	IN HOUSE LAB
Shock Temperature	Up to 120°C (15min)	INHOUSE LAB
Application Temperature	5°C to 35°C	Conditions: 20°C, 50% RH
Tack Free Time	8 min	
Light Trafficking	24 hours	
Final Curing time	7 days	

## Application

### Surface Preparation

Careful surface preparation is essential for optimum finish and durability.

The surface needs to be grinded with a stone- or a diamond-grinding machine. The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the coating. Maximum moisture content should not exceed 5%. Substrate compressive strength should be at least 25MPa, cohesive bond strength at least 1.5MPa. New concrete structures need to dry for at least 28 days. Old coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothened. Any loose surface pieces and grinding dust need to be thoroughly removed.

**WARNING:** Do not wash surface with water! Do not use a metal-ball blasting machine to grind the surface, because the heavy metal-ball impacts destroy the cohesion of the concrete surface and lower its stability.

### Repair of cracks:

Clean cracks and hairline cracks, of dust, residue or other contamination. Fill all cracks with suitable putty. The next day smoothen the putty surface with sandpaper or a mechanical grinder.

### Application as Transparent Top-Coat

Apply the MARISEAL® 7800 onto the previously applied Polyurethane or Epoxy Floor Coating surface by roller.

ATTENTION: Be sure to apply thin layers. Do not let coating pond.

ATTENTION: Change rollers every 30 minutes, especially in high temperature conditions (>25°C) as the MARISEAL 7800 tends to cure and then creates uneven steaks during application.

### Application as Binder Resin for Sand carpet Coating

Make sure that the surface to be coated was previously prepared and primed.

Mix the MARISEAL® 7800 with colored Silica Sand (corn size 0,7-1,2mm or 2,0-3,5mm) in a mixing ratio of 1:10 (resin: sand) by weight, with a low speed mechanical mixer, until the mixture becomes fully homogenous.

Pour the mixture onto the prepared and primed surface and apply by flat trowel.

For best results, the temperature during application and cure should be between 5°C and 35°C. Low temperatures retard cure while high temperature speed up curing. High humidity may affect the final finish.

**WARNING:** The MARISEAL® 7800 is slippery when wet. In order to avoid slipperiness during wet days, sprinkle suitable aggregates onto the still wet coating to create an anti-slip surface. Please contact our R+D Dept. for more details.

### Packaging

MARISEAL® 7800 is supplied in 20kg and 5 kg pails. Pails should be stored in dry and cool rooms for up to 9 months. Protect the material against moisture and direct sunlight. Storage temperature: 5°-30°C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, and batch number and application precaution labels.

### Safety measures

MARISEAL® 7800 contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data sheet. **PROFESSIONAL USE ONLY.**

Our technical advice for use, whether verbal, written or in tests, is given in good faith and reflect the current level of knowledge and experience with our products. When using our products, a detailed object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We are liable only for our products being free from faults; correct application of our products therefore falls entirely within your scope of liability and responsibility. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our R+D department. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice.

\* All values represent typical values and are not part of the product specification.

