



SVFloor MMACRYL System

Industrial methacrylate system

Description:

- It is a system, formulated with a bi-component polymer resin, 100% Reactive Acrylic, of German technology, which combines a decorative appearance with maximum mechanical and chemical resistance, in humid and aggressive environments, in industrial, commercial or institutional areas.
- The Svfloor MMACRYL Ultra Fast Cure System, in addition to having the advantage that cures at low temperatures even under 0 °C, can be put into operation in just one hour after being applied, so that prolonged work stops are avoided.

Attributes/Advantages:

- Our floors have no joints, are impervious to liquids and conventional cleaning agents and also resist hot and fatty waters.
- Svfloor MMACRYL systems are ideal for aggressive environments in food processing areas.
- Our System offers maximum wear resistance and long-term anti-slip properties, along with a long service life with a great decorative appearance. The degree of mechanical strength and slip resistance can be adjusted precisely according to the regulations required in the industry.
- Wherever food is produced, the main problem is cleanliness. Our Svfloor MMACRYL System, for the food processing industry, complies with the provisions of the USDA (United States Department of Agriculture), in addition to other strict local German food laws. The Svfloor MMACRYL reactive floor systems have been certified by SEGA (Forschungs-und Unter-suchungs gesellschaft mbH, Aschaffenburg Germany) as physiologically inert.

Application Places:

- Food production areas.
- Filling drinks, breweries and wineries.
- Fruit juice plants and Dairy industries.
- Processing of meat, poultry and fish.
- Animal research areas.
- Fish processing and packaging plants.
- Industrial and commercial kitchens.
- Apartments, airports, hotels, stadiums, theaters, hospitals.
- Workshops and vehicle plant.

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Benefits:

High mechanical resistance:

Svfloor MMACRYL offers great mechanical, impact and maximum abrasion and friction resistance. The degree of mechanical resistance can be adjusted precisely according to the need and industrial regulations.

Resistance to continuous chemical exposure:

Impervious to acids, alkalis and other chemicals used for cleaning.

High resistance to thermal shocks:

SVFloor MMACryl Resists washing with hot water, which is used to degrease, clean and disinfect industrial sanitary environments.

Sanitary:

MMACRYL floors are not porous, they are impervious to liquids. Dirt, moisture and germs cannot penetrate our floors, which results in an economical surface, as it is easy to clean and disinfect.

Durable, safe and efficient slip resistance:

Svfloor MMACRYL floors offer the highest safety standards and provide a durable, aesthetically pleasing and an efficient working environment. Urethane cement, non-slip textured surfaces maintain their grain profile for many years without maintenance.

Safe non-slip floors:

Whether it is a smooth or rough finish, the SvFloor MMACRYL systems are non-slip, even when wet they maintain their non-slip property.

Fast return to service:

Our Svfloor MMACryl system, if installed at night, will be ready to withstand mechanical loads and chemical attacks, even an hour after application if done in areas with temperatures as low as -30 °C.

Decorative:

Improve environments by adding Quartz or decorative chips.

Economy:

We have an excellent track record and our team has the highest technical experience and is ready to help your project from start to finish.

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Application Method:

- The SVFloor MMACRYL system with the first indicated, can be applied on concrete (properly prepared), bricks, ceramics, metal, wood, or on SVFloor repaired mortars.

Surface Preparation:

- Proper preparation is essential to ensure excellent adhesion and ideal system performance. The use of devastating industrial diamond disc machine or industrial shot blasting machine is recommended to make a good anchor profile.
- The substrate must be dry and free of dust, wax grease, oils, greases, loose paint and foreign materials. All floor terminations must have v-cut joints, to ensure proper anchoring. It is recommended to repair all cracks and joints before beginning the application. For additional information, consult your local representative or the Servitetop technical service.

SVFloor MMACryl Primer:

- The use of primers is necessary in all applications of MMACRYL systems.
- For dry substrates, use Primer Svfloor MMACRYL 2112 P and in response to wet substrates print with Svfloor MMACryl 2115 PWE.

Primer application:

- The components (Part A + B) will be mixed in a container with a low revolution mixer for 1 minute.
- Then take it to the site where the application will be made. Distribute immediately with rubber pull or squeegee and immediately pass the 3/8 "or 1/2" bristle roller, evenly forcing the primer to penetrate deep into the concrete.

NOTE: The Primer must be fully cured and the concrete must be completely sealed before applying the intermediate or body layer. To apply on an existing MMA floor, no primer is needed. The surface must be sanded and cleaned with Svfloor MMACRYL Monomero solvent.

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Application Method:

Installation Procedures for Svfloor MMACRYL 2418 BC Intermediate Layer:

- The Intermediate layer is a viscosity 100% Reactive acrylic resin, MMACryl 2418 BC, which can be transparent or pigmented, it must be emptied at 12/mm thickness per layer.
- Pigmented Quartz sand or colored chips can be emptied and immediately added to make the system more decorative and resistant.
- It is necessary to be given a final layer of protection and sealed with MMACRYL TC.

MMACRYL 2418 BC resin mix. (Part A) + CATALYST (Part B):

- Empty the entire contents of Part A (liquid) into a 20 liter mixing vessel.
- While mixing, add Part B (powder catalyst) in the container and stir with a low revolution mixer for 1 minute.
- Empty the contents onto the surface immediately after mixing, and spread it with a rubber pull or squeegee, immediately roll it with a 3/8 "or 1/2" bristle roller.
- For a non-slip finish add a layer of Quartz or decorative chips, depending on the area and the project requirement.

SVFloor MMAcryl 2526 TC final layer installation procedure:

- 100% Reactive Acrylic Resin, medium viscosity for the manufacture of 2 component final layers for wet areas, mainly in the food industry.

Properties:

Svfloor MMACRYL 2526 TC, has the following improved properties:

- Good self-leveling.
- Low yellowing.
- Improved resistance to hot water and grease up to 80 * C.
- To achieve the best cure it is necessary to apply Svfloor MMACRYL 2526 TC, at a minimum thickness of approximately 0.4 mm (400 g / m²) per work layer. To ensure proper slip resistance and avoid yellowing and peeling, a maximum of approximately 0.8 mm (800 g / m²) should be applied.

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Application Method:

Procedure for the Application of Final Layer:

- The total amount of MMACRYL 2526 TC, mixed, for one minute, is to be completely poured over the coating and distributed with a rubber pull or squeegee, immediately a 3/8 Bristle Roller is passed to spread the product evenly.
- Two layers of svfloor MMAcryl 2526 TC are recommended for optimal results.

Cleaning:

- Clean tools and equipment with SVFloor MMACRYL Monomer Cleaner. Refer to the Safety Data Sheet for safety and health precautions.

Storage:

- Store in a cool, dry place, below 30 ° C, out of direct sunlight. Do not store near flames or food. The shelf life is 12 months in the original unopened containers. After prolonged storage, additives and fillers can be separated. Materials should be inspected for visible signs of settlement, polymerization or coagulation of paraffin (groups, strands). Thoroughly mix buckets or drums and pour them into new containers to inspect the resin before use.

Caution:

- Adequate cross ventilation must be provided. Good ventilation during application guarantees cross-linking and hardening. Read, understand and follow the Safety Data Sheets and Application Instructions before using. Use only as directed. If the temperature of the substrate and / or material is higher than 35 ° C, DO NOT apply the material.

Legal Note:

- The information contained in this document was given in good faith, based on the experience and knowledge that Servitop inc. Has about the product, as long as it has been stored, handled and applied in normal situations according to the indications and recommendations of Servitop.
- The information contained herein does not exonerate the user from making the necessary tests of the products in the places where they will be applied to obtain the best results.

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**Physical Performance Properties:**

Material Properties	Testing Method	Intermediate Layer Results	Final Layer Results
Flashpoint	ASTM D3278	Flammable Liquid	Flammable Liquid
Solid percentage, by weight	ASTM D2369	100	1100
Density	ASTM D1457	8.17 lb/gal / 0.98 kg/L	8.40 libras/gal / 1.01 kg/L
Viscosity, cps	ASTM D2393	300 - 350	200 - 300
Volatile Organic Compounds	ASTM D3960	0 lb/gal / 0 kg/L	0 lb/gal / 0 kg/L

Cured Coating Properties:

Material Properties	Testing Method	Intermediate Layer Results	Final Layer Results
Water Absorption	ASTM D570	<0.1%	<0.1%
Compression Resistance	ASTM C109	6500 psi / 45 Mpa	7500 psi / 52 Mpa
Tensile strength	ASTM C307	2000 psi / 14 Mpa	2100 psi / 14 Mpa
Flexural strength	ASTM D348	2800 psi / 19 Mpa	3100 psi / 21 Mpa
Shore D Hardness	ASTM D2240	62	80
Elongation to breakage	ASTM D628	35%	-

Coating Features:

Material Properties	Testing Method	Intermediate Layer Results
Application Temperature	0°C until 35°C	-28.9°C until 35°C
Useful life	10 - 15 minutes	10 - 20 minutes
Curing time	1-2 hours	20-60 minutes

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Amount of Catalyst Required:

BPO of MMACRYL P 2112:

Temperature	Hardener	Useful life	Curing time
5°C	5% / weight	approx 8 min	approx 30 min
10°C	4% / weight	approx 8 min	approx 30 min
15°C	3% / weight	approx 7 min	approx 30 min
20°C	2% / weight	approx 8 min	approx 30 min
>30°C	1% / weight	approx 6.5 min	approx 30 min

BPO of MMACRYL TC 2526:

Temperature	Hardener	Useful life	Curing time
5°C	1.50%	65 - 75 min	approx 80 min
10°C	1.50%	30 - 35 min	approx 45 min
20°C	1%	15 - 18 min	approx 32 min
>30°C	1%	14 - 17 min	approx 21 min

BPO de MMACRYL BC 2418 :

Temperature	Hardener	Useful life	Curing time
5°C	4.50%	approx 40 min	approx 70 min
10°C	3%	approx 35 min	approx 75 min
20°C	2%	approx 15 min	approx 35 min
>30°C	1%	approx 25 min	approx 70 min

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