
Hi-Urethane M-190

Hi-Urethane M-190 is the various chips (EPDM, PU, waste tires), one pack that can be mixed to work with polyurethane polymeric resin. due to urethane peculiar chemical properties, excellent tensile strength and striking elongation and elasticity

CHARACTERISTICS

- Failure prevention according to the mix of topics and hardener.
- Construction is relatively easy.
- Resistant to vibration and shock as excellent elasticity.
- Since the one-component construction equipment is relatively simple.
- You can freely constructed in accordance with various purposes.
- Adhesion, excellent impact resistance, abrasion resistance.
- Maintenance is easy because it is cheaper to manage.
- No cracks or deformation withstand vibration.

RECOMMENDED USE

- Various footpaths
- Sports facilities, including a gym floor
- General offices, hospitals, schools, resilient flooring, such as libraries
- Elastic bottom shock absorbing in other various structures

PHYSICAL PROPERTIES

- Appearance yellowish liquid
- Specific gravity(25/4 °C) part A: 1.05 ± 0.1
- Viscosity(cps/25 °C) part A: 1800 ± 500
- Theoretical coverage 0.2 kg/m² × mm
- Curing time(hour/25 °C) 24~48
- Hardness(Shore A) 60 ± 10

THINNER

Do not dilute.

MIXING RATIO

- M-190 : EPDM chips = 1 : 4 (by weight)
- * The binder amount is subject to change depending on the type and coating conditions of the chip.

PACKING UNIT

- 18 kg/18 ℓ
- Could be packed on request.

STORAGE

- Store it indoor at room temperature.
- Storage temperature: 0~43 °C
- Humidity: 0~70% (unopened condition)
- Must keep sealed remained product once opened.

SHELF LIFE

- 3 months in unopened containers under normal warehouse conditions.

PRECAUTIONS

- Keep adequate ventilation during the application.
- Store it indoor and cool place and keep away from ignition.
- Use masks, gloves, or other protector during the application.
- Store the remaining materials quite sealed after use.
- Do not exposure to the moisture.
- Keep away from children during coating and storing.
- In case of ingestion or skin contact, administrate first aid according to notice on container or Material Safety Data Sheet(MSDS), and see the doctor immediately.
- Do not use other purpose except original recommended use.

IMPORTANT The information contained in this publication is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control.

Hi-Urethane M-190

LIMITS

This Sheet covers with the working with **Hi-Urethane M-190**.

This Sheet is a kind of standard of operations, so if there a specification for detail work and there are some difference in the two documents, it's nice to work according to the specification.

WORKING CONDITION

- Application tools Rubber spatula, trowel, roller, Electric agitator (minimum 0.5Hp ↑), brush
- Thinner Do not dilute.
- Recoating interval after 24hours (25 °C)
- Theoretical coverage 0.2 kg/m² × mm

SURFACE PREPARATION

- Importance of surface treatment : There are much alkaline dust on the concrete surface, and it make poor adhesion with polyurethane and surface. So it must be removed for strong film and excellent adhesion.
- Cure the concreted surface sufficiently to remove the alkali of the surface and keep the moisture content within 8% max.

Temperature (°C)	Need to Curing (day)
24	28 Min.
21	30 Min.
10	40 Min.
7	60 Min.

- Clean the surface with acid , sandblast or grinding if you need.
- It should be cured completely when the appropriate primer or equivalent material was applied.
- Remove dust, sand, moisture and oil on the surface.
- In case that the surface to be applied is damp, dry fully and apply.

DIRECTIONS FOR WORK

1. Direction for **Hi-Urethane Primer** coating

- Check the cleaned well surface.
- If there are some water it must be dried and must be not dusty.
- Then apply to cleaned surface with proper primer, Hi-Urethane Primer #300.
- Apply with the Hi-Urethane M-190 after curing the primer. It may be one to twelve hours after primer coating.
- See the DIRECTIONS FOR USE of Hi-Urethane Primer for the details.

2. Direction for **Hi-Urethane M-190**

- Check the curing of Hi-Urethane Primer coating and then apply the Hi-Urethane M-190
- Mix well M-190 and various chips by correct mixing ration with electric agitator.
- Must mix well M-190 and various chips to scrape up the product on the wall of package cans. The construction of a pre-heated and pressed using a heating roller.
- The temperature of the heating roller is maintained over '80°C'.

- When the M-190 is completely cured urethane topcoat paint high as needed.
- Other more high-urethane topcoat operations please refer to the User Guide for High-urethane topcoat.

PRECAUTIONS

- Keep adequate ventilation during the application.
- Store it indoor and cool place and keep away from ignition.
- Once opened, containers should be resealed immediately after removal of the product.
- Do not exposure to the moisture .
- Keep away from children during coating and storing.
- Take a gas mask and put on the other personal protector in the applying.
- Must use suitable thinner, otherwise you must get failure coating film.
- In case of ingestion or skin contact, administrate first aid according to notice on container or Material Safety Data Sheet(MSDS), and see the doctor immediately.
- Do not use other purpose except original recommended use.

IMPORTANT The information contained in this publication is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control.