

PLEX 1320

DESCRIPTION:

Plex 1320 is a preformulated polymethylmethacrylate resin which is used for making blind reading (braille).

The Plex 1320 is on side together with pigments and fillers.

SUBSTRATE PREPARATION:

New substrate:

It should be clean, well bound and not crumble. If necessary, it should be prepared with a milling or shot blasting machine to remove the laitance and unevenness of the substrate. The concrete should have high strength (min. B25 concrete checked by the "pull off" method > 1.5 MPa) and be free from impurities such as: grease, oil, dirt, etc.

Old substrates:

They require milling or shot blasting – depending on their condition. The strength of the substrate must be >25 N/mm². Cracks and depressions must be leveled before the floor is laid. Sometimes it is necessary to use detergents to eliminate grease and oiliness.

The unevenness of the substrate should not exceed 50% of the layer thickness.

MIXING/APPLICATION:

Mixing ratio: Component A: catalyst = 100 : 2

The material consists of two components capable of reacting. Before pouring, the ingredients must be thoroughly mixed together in accordance with the prescribed mixing ratios, which have a very large impact on the quality of the final product. When pouring ingredients to mix, the containers should be completely emptied. When processing part of the contents of the package, it is necessary to weigh the ingredients in accordance with the given proportions. When mixing, use suitable agitators driven by drills with a speed of max. 400/min. All ingredients should be mixed for about 2-3 minutes. After mixing, the mass is ready for laying. In order to evenly distribute the material over the entire surface, use a special trowel, e.g. with serrations of the appropriate height.

APPLICATION CONDITIONS:

The temperature of the room and the substrate should not be lower than +0°C and higher than +35°C. The recommended temperature of the material before applying it is 20 degrees C. The material should not be applied to the substrate if its temperature is lower than or equal to the dew point temperature.

REMARKS:

Check the kit to make sure you have the correct component A and B.

Mixing is very important. The timing must be strictly observed, otherwise no chemical reaction will occur.

- Store in well-closed drums or buckets.
- Wear protective clothing and gloves when applying the material.
- All employees should be thoroughly trained in the handling of epoxy resins regarding the hazards involved.
- Allergy sufferers must not be allowed to work on resins.
- Wash your hands with water and mild cleaning agents after each contact of the resin with the skin.
- For hygiene reasons, you should not eat or drink in the workplace and do not smoke there.
- Avoid inhaling fumes from the reacting material, do not allow contact with the skin.

PROPERTIES:

Excellent adhesion to the substrate

Simple and quick application

Good chemical resistance

Good mechanical resistance

It has excellent adhesion properties

TECHNICAL PARAMETERS:

Viscosity comp. A ¹	2500 - 3000
[mPa·s]	
Density comp. A ² [g/cm ³]	1,30
Tensile strength	> 9
[N/mm ²]	(sample thickness 2 mm)
Elongation at break	> 300
[%]	(sample thickness 2 mm)

1 IKA Rotavisc Io - vi, LV3, 30 RPM, 20°C

2 ISO 2811-1, + 23°C/50% R.H

PACKAGING:

Metal buckets: 20 kg

Barrells: 180 kg

FORM:

Component A: Liquid, coloured

Order all materials for your project at the same time.

SHELF LIFE:

Up to 12 months after production date in original, sealed, non-opened and undamaged packaging, stored dry between +5 °C and +25 °C.

The substrate as well as the adjacent surfaces must always be thoroughly prepared and cleaned before application. Mix material should be used on a regular basis, as the material becomes hard and unusable after the processing time has elapsed.

Incorrect crack assessment and treatment can lead to shortened service life and recurrent cracks. Underfloor heating or high ambient temperatures, combined with high point loads, can lead to imprints/marks on the resin under certain circumstances.

When applying the material, ensure the correct personal protective equipment is worn.

Protection against rain and water is necessary during the processing and curing stages. Ensure adequate ventilation during application.

Incorrect assessment and treatment of cracks can result in recurring crack formation.

Mixed materials should be processed immediately.

If heating is required, do not use gas, oil-paraffin, or other fossil fuel burners as they produce large amounts of CO₂ and water vapor, which can adversely affect the finish. Use only electrically powered hot air ventilation systems.

CLEANING/MAINTENANCE:

Floors should be cleaned frequently and regularly to prevent dirt from accumulating on the surface. Clean up all spilled debris as soon as possible. The use of suitable cleaning agents is recommended. Clean floors with lukewarm water, never use hot water (above 40 degrees Celsius).

LEGAL NOTICE:

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CURING TIME:

Life time at 20°	15 min
Dry to the touch at 20°C	1 hour
Pedestrian traffic at 20°C	24 hours
Full chemical cured at 20°C	3 days

Check the R.H. and dew point before application.

HEALTH AND SAFETY:

For information and advice on the safe handling, storage and disposal of chemical products, the user should consult the most recent product safety data sheet consult, regarding the physical, ecological, toxicological and other safety-related data.

VALUE BASE:

All technical data stated in this technical data sheet is based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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