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TECHNICAL DATA SHEET

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DESCRIPTION

MPL ZIPROOF SFU 140 is a polyether polyol system with added catalyst and additives. It canbe used to produce "spray hybrid polyurethane elastomer"

RECOMMENDED USES

MPL ZIPROOF SFU 140 is recommended for usein general waterproofing applications such as podium and car park decks, tunnel lining, foundation, basement, green roofs, truck bed lining, and waste water tank line.

Using the appropriate primer in surface preparation, **MPL ZIPROOF** SFU 140 can be applied to most substrates including concrete, wood, aluminium, galvanised steel and glass reinforced polyester etc.

ADVANTAGES

- ✓ Excellent impact, abrasion and puncture resistance.
- ✓ High elongation and elasticity benefit for thelife of the product.
- ✓ Environmental friendly-solvent free.
- ✓ Curing even at room temperature.
- ✓ Possible to construct on complex shaped substrates ceiling and vertical wall.
- ✓ Highly resistance to diluents non-oxidizing acids, caustic solutions mineral oils and many polar and organic chemicals.
- ✓ Excellent resistances to mechanical stresses and tear propagation.
- ✓ Good weathering resistance to UV radiation, ozone and high energy radiation.

Mixing ratio (**MPL ZIPROOF** SFU 140 : Empeyonate IEL 100AP)	
by weight	100 : 109
by volume	100 : 100

Density @ 25°C	
MPL ZIPROOF SFU 140	1.01 kg/L
Empeyonate IEL 100AP	1.10 kg/L

The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site condition

Viscosity @ 25°C **MPL ZIPROOF** SFU 140 Empeyonate IEL 100AP	 >1700 mPas >2000 mPas
Gel time (in hand mix) @ 25°C	15 seconds
Ambient temperature range	8°C to 50 °C
Substrate temperature range	5 °C to 60 °C
Relative humidity	Max. 80 %

If correctly processed, **MPL ZIPROOF** SFU 140 will give below mentioned physical properties.

Shore A hardness	14 Days	75-80
Tensile strength MPa	DIN 53504	>10
Elongation %	DIN 53504	400 + 100
Tear strength N/mm	DIN 53515	20

APPLICATION

Surface Preparation

All surfaces must be clean, dry and free from contamination. The concrete substrates to be coated must be at least 28 days old, surface preparation mustbe individually assessed to choose the most suitable surface preparation method, such as sand blasting, shot blasting, scarifying, bush-hammering or other methods. The substrate must be treated with a suitable primer.

The substrate to be coated must be protected againstrising damp by having a damp proof membrane installed if it is a slab in contact with the ground.

MPL ZIPROOF SFU 140 can only be applied by means of a suitable two component spray machine.

MPL ZIPROOF SFU 140 will yield uniform colored surface when sprayed, which will ensure that the mixing is in proper / designed mixing ratio.

Surrounding areas should be protected from oversprayby masking off with e.g. polyethylene sheet or paper. Care should be taken to prevent spray mist being carried by wind by erecting suitable barriers.

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PERFORMANCE ON CONTINUOUS SUN

Even though **MPL ZIPROOF** SFU 140 is preblended with UV stabilizer, it is not light fast. And thus its colour will change when exposed tosun light. The use of suitable colour pastes will limit discoloration. It is also possible to apply a light fast top coat.

TEMPERATURE WITHSTANDING

MPL ZIPROOF SFU 140 will withstand thermal loads up to 180^0c for short period (2 to 3 minutes).The permanent service temperature in a dry environment should not exceed 80^0C. Maximum permissible service temperature in an aqueous environment should be determined by preliminary trials.

ESTIMATING DATA

MPL ZIPROOF SFU 140 is normally applied at 1.7 to 2.3 kg/m^2. This corresponds to a thicknessof approx. 1.7 to 2.3 mm.

PACKAGING

MPL ZIPROOF SFU 140 is being supplied in drums of 210 kg packing along with Empeyonate IEL 100AP or any other suitableIsocyanate as Part B in 215 kg drum.

SHELF LIFE

Six months if stored in original containers underdry conditions at a temperature between 10 and30^0 C. Do not store in direct sunlight for more than 3 days.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtaina copy of the MPL Material Safety Data Sheet (MSDS)