

Mahaguard[®] Polyurea HB

Two Component Polyaspartic Hybrid Aliphatic Polyurea

Description

Mahaguard Polyurea HB is a two component, polyaspartic hybrid polyurea Hi-build coating with excellent resistance to UV & atmospheric exposure. The fully cured coating has very good chemical resistance. Mahaguard Polyurea HB has good adhesion on various surfaces like concrete, metal, wood etc. Mahaguard Polyurea HB has a best water and chemical resistance & suitable for exterior applications, where in non-chalking properties and very good abrasion resistance.

Features / Advantages

- Mechanical, chemical, thermal, UV and weather resistance properties
- Uniform, elastic, seamless joints
- Highly elastomeric polyurea coating
- Crack bridging ability up to 3 to 4 mm
- Due to fast setting nature, applied coating dose not wash out even shower after 1-2 hours.

Typical Application

- Terraces
- Balconies & Flower beds
- Podiums
- Roofs
- Deck slab
- Bridge deck
- Wind Turbines
- Pipe Lines etc.

Technical Information

PROPERTIES	STANDARD	SPECIFICATION
Appearance		White Thick Viscous liquid
Solid Content (%)		88 % ± 3
Mixing Ratio	Base: Hardener	75:25 pbw
Elongation at break, (%) 14 days	ASTM D 412	> 450
Tensile strength, 14 days	ASTM D 412	> 3 Mpa
Recovery @ 200 (%)	ASTM D 412	95
Hardness (Shore A Scale)	ASTM D 2240	> 50
Temperature Resistance		From -30° C to +90° C
MVT-Permeability-7d	ASTM D1653	15 g/day/m ²
Pull Off Adhesion	ASTM D 4541	> 3 Mpa
Crack Bridging Ability	ASTM C 1305	> 3.5 mm
Chemical Properties	Good resistance against acidic and alkali solutions (5%), detergents, seawater and oils.	

Methods of Application

Surface Preparation

Substrate must be dry, clean, free of grease, loose particles, dust etc. Any existing cavities in concrete should be repaired with MahagROUT CPG-100 in advance. Intense wide cracks on the substrate must be filled with the PS or PU sealants. For porous concrete substrate or old waterproofing layers and other porous surfaces should be primed with suitable primer at a consumption of 5 to 7 m² per kg.

Mahaguard[®] Polyurea HB

Two Component Polyaspartic Hybrid Aliphatic Polyurea

Application

Mahaguard Polyurea HB is 2 components Part - A (base) and Part - B (hardener) are packed in two separate containers, having the correct predetermined mixing ratio by weight. Stir individual container separately, Part - A and Part - B very well, to get homogeneous material. The whole quantity of Part - B is added into Part - A. The two components should be mixed for about 2-3 minutes with a low-speed mixer (300 rpm), until the mixture becomes uniform & homogeneous. It is important to stir the mixture thoroughly near the sides and bottom of the container, to achieve uniform dispersion of the hardener.

Over primed surface, apply mixed material by brush/roller in two coats in perpendicular directions, in the interval of 12 to 16 hrs.



Packing

25kg



Storage and Shelf life

Store in a cool dry place under shed away from heat. Shelf life is One year in original unopened conditions.



Cleaning of Tools & Equipments

Tools and equipment should be cleaned with suitable solvent immediately after use.



Consumption

0.8 to 0.9 kg/m² in one coats and DFT is 0.5 mm. It may vary and depends upon surface undulations and other detailing.

Ecology, Health and Safety

Health & Safety instructions, all chemicals should not come in contact with skin and eyes or be swallowed. Protective gloves and goggles should be worn. If contact with skin occurs, wash well with soap and water.

Eye contamination should be washed thoroughly with clean water and medical advice sought.

If swallowed seek medical attention immediately. Do not induce vomiting.

Disclaimer

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product.

Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.



Nikhil Adhesives Limited

902, 9th Floor, A Wing, Kaledonia HDIL Building,
Sahar Road, Opp. D-Mart,
Andheri (East), Mumbai – 400069



8655691400



support.mahafix@nikhiladhesives.com



www.nikhiladhesives.com

