

# MAK HYPERFLEX 1200

**Polyurea based waterproofing solutions with fast cure, better crack bridging and high-performance coating**

## CHARACTERSTICS :

- High elongation, two component hybrid polyurea
- Fast curing–tack free under 12 sec
- Ideal tensile strength for waterproofing applications
- Excellent adhesion to variety of substrates
- Crack bridging upto 3mm
- Resistant to Root puncture
- High resistance to water pressure
- Single layer application upto 5mm
- 100% solids, Low VOC emissions
- Superior impact, abrasion and tear resistance properties
- Return to service –72 hours

## USAGE :

Mak Hyperflex 1200 system can be used for wide variety of waterproofing applications such as Terrace, Balconies, Podium, Water-tanks, Retainer walls, Basement, Reservoirs etc.

## APPLICATION :

- Primer –Spray& Roller application
- MAK Hyperflex 1200 to be applied by plural component airless spray machine with heating arrangement, under a pressure of 2200 to 2500 Psi and temperature of 70 to 80 degree C

## SURFACE PREPERATION :

Substrate preparations general recommendations: The spray systems should only be applied to clean, dry and sound surfaces. Remove all dust, oil, grease and loose rust or any other foreign material to ensure adequate adhesion.

Concrete: The concrete shall be completely cured (or minimal 28 days). Laitance, release agents and salts need to be removed by high pressure water jetting or sand blasting. Other substrate cleaning

## PRODUCT CHARACTERSTICS :

Mix Ratio	Hardener: Resin 1:1parts by volume
Gel Time	4 Seconds
Tack Free Time	6 Seconds
Service Temperature	-30deg C to +80 deg C

## PHYSICAL PROPERTIES :

Hardness: DIN 54505	25 ShoreD
Tensile :DIN 53504	12 Mpa
Elongation:DIN 53504	570 %
Tear Strength:DIN 53515	50 N/mm
Abrasion (1kg, H22 wheels): ASTMD4060	< 0.01%

## PHYSICAL PROPERTIES :

### Water Resistant Properties

Capillary Water Absorption:0.717 %  
ISO 62: 2008(E) Method A

Capillary Water Absorption:1.550 %  
ISO 62: 2008(E) Method B

Resistance to Water Pressure:degree of damage 0  
DIN EN SIO 16925 –Test Method A

Resistance to Water Pressure:degree of damage 0  
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Root Resistance: Pass  
PD CEN/TS14416:2014

### Mechanical Properties

Pull of Adhesion value:>=4(Concrete substrate)  
EN 1348 – 2007

Pull of Adhesion value:>=15(Metal substrate)  
EN 1348 –2007

Puncture Resistance : 853 N  
ASTM E154

Crack Bridging:3 mm  
ASTMC836-2015 & ASTM C1305-2008

He Permeability:0 cm3. mm/m2. atm

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## CONSUMPTION :

### Consumption –Mak Hyperflex 1200

1.5 kg/ sqm for thickness of 1.5 mm

### Consumption – Mak Epoxy Primer

Mak Epoxy Primer : 0.15kg/sqm

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