

## Technical Information



# HERTEC 1105 TW

2-C-POLYUREA-spray elastomeric  
potable water approved

### Description:

2-component – pure polyurea spray elastomer, aromatic, 100% solid, potable water approved softener and solvent free, application only with high pressure plural component spray equipment

### Characteristics:

- fast reaction time
- food safe
- high tensile strength
- high elongation at break
- high tear resistance
- high abrasion resistance
- does not deteriorate over time
- flexible at low temperatures
- accepts mastic asphalt
- resistant to root growth
- resistant to hydrolysis
- permeable to water vapour diffusion
- resistant to microbes

### Application:

**HERTEC 1105 TW** is used by itself or in combination with other materials to produce coatings, liners, wearing courses, and resilient surfaces on concrete and other substrates. Its extremely fast gel time makes it suitable for applications down to -30°C without special conditioning of the component resins and isocyanates. **Hertec 1105 TW** produces an extremely tough film at all thicknesses. Single or multiple pass applications produce films from approx. 0,5 mm to 25 mm without appreciable sag or runs. **Hertec 1105 TW** may be applied in all positions and to any suitably prepared substrate. **Hertec 1105 TW** is inert, it will not hydrolyze, leach, or contaminate other materials and is bondable and paintable. **Hertec 1105 TW** is relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions.

### Consumption:

approx. 1,3 kg/m<sup>2</sup> per 1 mm coating thickness.

### Resistant to:

- salt water / sewage
- diluted acids and alkalis
- flexible at low temperatures, down to -40°C
- dry temperature max. 140°C
- ground and surface water
- mineral oils, diesel fuels
- resistant to root growth
- short-term +250°C (applied mastic asphalt)

### Technical Data:

Mixing ratio A : B	100 : 100 by volume (1 : 1)
Density (25°C) component B and A	approx. 1.00-1,05/ 1,11 kg/l
Volume solids	approx. 100 %
Viscosity (25°C)	approx. 700-900 mPa s (amin side) approx. 760-790 mPa s (iso side)
Shore D - hardness 20°C	approx. 40-45 (approx. 85-90° shore A)
Tensile strength	approx. 20 Mpa
Elongation at break	> 350 %
Wear resistance	< 100 mg
All above values are approximate and may be used as a guideline for specifications	

### Details for application:

Start of reaction	approx. 8 - 10 seconds
Substrate temperature	minimum 1°C up to maximum 40°C
Maximum relative humidity of air	70 %
Curing time / foot traffic (5°C / 23°C / 30°C)	10 minutes / 5 minutes / 3 minutes
Duration between coats	10 minutes - 8 hours
Curing time (5°C / 23°C / 30°C)	36 hours / 24 hours / 24 hours

### Packaging:

200 kg - barrel (amin side)  
215 kg - barrel (iso side)

### Colour:

blue  
- due to raw material variations and manufacturing techniques, a slight colour / batch difference may occur -

### Storage:

6 months, unopened in original drums under dry conditions and a temperature of 15 - 30° C  
At temperature < 15°C crystallisation is possible. Please contact us.

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