

Pure Polyurea

DOW



Product Description

It is a 100% solid, solvent - free, aliphatic, dual component, flexible modified Polyurea system which can be applied on metal, concrete, wood and other surfaces as a spray. Due to fast gelation, it can be applied until the ambient temperature up to -30C. Weather temperature and humidity ratio during the application doesn't affect the result. It has Shore D 50 hardness degree, elongation being 425 % on flexible basis. Polyurea sticks on the surface tightly, prevents the contact with outside and water and air permeability, it is resistant to corrosion, vibration and shocks with these features.

Features

- zero emission (100% solid)
- excellent heat resistance
- flexible in low temperature
- high resistance to chemicals
- seamless, jointless, solid surface
- odorless, can be colored, appropriate for hygienic environments
- non - reactive, it doesn't have any side effect after the application
- easy to clean.

Areas of Application

Petrol and natural gas piping lines, airports, refinery, fertilizer factories, mining processing plants, food facilities and factories, Shipyards, Marine enterprises, Waste Centers, walkways and balconies, water and waste water treatment plants, industrial production areas, power plants, warehouse floors, cold room facilities, waste disposal facilities, car parking floors, paper and cellulose plants

Consumption

Mixing in volume	A: B (1:1)
Pot life (mixing and application time)	20 -30 sec
Drying	20 - 30 sec
Repeated flooring time	After 1 min
Polyurea viscosity 65 C - 75C	A: 50 + 10 cps B: 50 + 10 cps
Final product density	1,04 g/ml
Flash point	> 192 C
Shore D	45 - 55
Tension	2800 ± 4 00 PSI
Elongation	405%
Rupture	450 ± 50 pli
Service temperature	Between - 30C and 120 C
Water steam permeability	0.00042 perm - inch
Fireproof class	A 2
Resistance to corrosion	< 15 mg loss

Application and Warnings

Generally, flooring performance and surface adhesion is directly proportional to the preparation of surface. It is necessary for the surfaces on which it is to be applied to be free from dust, oil, rust, corrosion and other dirt. The most important reason for the problems in surface flooring is related to non - preparation of surface. Surface preparation may vary depending on applications. So, the primer to be applied on surface may also vary. Primers can be both different both for surfaces and also product. In order to obtain the best result from the application, the recommended products and primers must be used.



The Swedish chemist Torbern Bergman for the first time in 1770 expressed the difference between "organic" and "inorganic" materials. After this date, the word "organic chemistry" came to the meaning of chemical compounds of living organisms very soon.

