



DIVERSE URETHANES

PRODUCT DATA SHEET

FlexiSeal 112

Description: One component polyurea moisture cure coating for concrete and steel in the application of anticorrosion & waterproofing.

Characteristics: A high-performance one component polyurea prepolymer resin integrating various technologies together. The film of coating contains large amounts of carbamate bonds, biuret bond and urea bond.

It specially includes Hydrogen bonds to contribute large cohesive force among molecules inside the film. It causes the coating to possess super strong properties of anticorrosion, waterproof, wear resistance, temperature variation, aging resistance, chemicals resistance etc.

Specifications:

Adhesive strength	3.5 Mpa(or substrate broken)
Impact strength	≥ 50kg• cm
Tensile strength	18Mpa
Elongation	350%
Penetrate resistance	2.6Mpa
Temperature variation	-40 to +160°C
Wear resistance (700g/500r)	8mg
Acid resistance (20%H ₂ SO ₄ or 10%HCl, 30d)	no rust no bubbles no peel
Alkali resistance 40%NaOH, 30d	no rust no bubbles no peel
Salt resistance 100g/L, 30d	no rust no bubbles no peel

Salt spray resistance 1500h	no rust no bubbles no peel
Oil resistance (diesel crude oil 30d)	no rust no bubbles no peel
Hydrocarbons (Unleaded fuel and Diesel)	no rust no bubbles no peel
Color	Multiple colours as customers' need
Luster	Supplied as a Matt or Gloss Finish as per request.
Density	1.06g/cm
Volumesolid content	81%± 2%
VOC	≤ 178g/L
Recommended dry film thickness	200-350μ m
Theoretical coverage	0.23kg/sqm (calculated by the above solids percentage and dry film thickness of 175 microns)
Dry time	1-3h
Overcoating interval:	while tacky
Coating method	Airless spray, Air spray, Brush, Roller
Flash point	61°C

Procedure:

No.	Name of products	Layers	Dry film thickness (μm)
1	Div 614 Sealant/Urochem 307	1	50
2	FlexiSeal 112	1	80-150
3	FlexiSeal 112	1	80-150
Total		3	210-350

Application: Buildings, bridges, tunnels, terminals and a variety of large concrete and steel structures.

Shelf life 10 months (Indoor with dry and cool conditions)
Packing 20 lt open top steel tins

Production area Diverse Urethanes , Modderfontein

Caution Do not apply on wet surfaces.
Make sure the layers do not dry out between coats. Adhesion is optimum when the coating is still tacky. If the coats dry out between applications, sand down with sandpaper, solvent wipe, apply bonding agent and recoat.

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All tests are carried out according to the standard methods used by Diverse Urethanes and details may be supplied on request.

The sales of this product shall be subject to Diverse Urethanes' Standard Condition of Sales.