



URDIN HD



SINTEC

your waterproofing partner

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DESCRIPTION

URDIN HD is a High Density Polyethylene membrane. Bitumen compatible. UV resistant.

USE

- URDIN HD is used as a waterproof barrier on all types of hydraulic works such as dams for agriculture, canals, reservoirs, treatment plants, settling ponds or evaporation, hatcheries, barrier containment of liquid or solid contaminants in municipal waste landfills, leachate ponds, pools slurry, tailings dams, protection against leaks in petrochemical industries, airports, port areas etc, or railway buildings, roads, walls, tunnels, pavements etc.

PROPERTIES

- Excellent thermal and chemical resistance.
- Very good impact strength.
- Flexible, even at low temperature
- Tough.
- Very light.
- Density equal to or less than 0.952 g/cm³.
- Recyclable product.

INSTALLATION

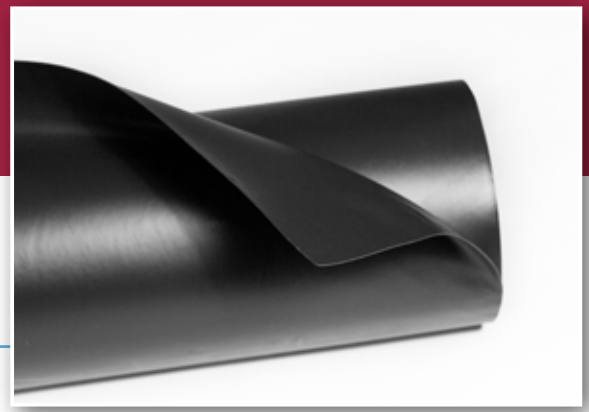
- The installation of waterproofing systems URDIN HD should be performed by experienced personnel and approved installers.
- The substrate must be dry, clean and free of sharp objects.

PACKAGING AND STORAGE

| | |
|----------------|---|
| Colours | Negro |
| Dimensions | Según petición. Anchura 5,0 – 5,5 (±0,2) metros |
| Rolls / pallet | - |
| Storage | Horizontally and in parallel (never crossed) |

Supplied in rolls on cardboard tubing.
Store in the original packaging in a dry and cool place.

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| PROPERTY | METHOD | VALUES | | | | |
|--|----------------------------------|--|---------------|----------------|----------------|----------------|
| Nominal thickness (mm) | EN 1849-2 | 0,75 ±10% | 1,00 ±10% | 1,50 ±10% | 2,00 ±10% | 2,50 ±10% |
| Mass per unit area, (average) (g/m ²) | EN 1849-2 | 705 ±10% | 940 ±10% | 1410 ±10% | 1880 ±10% | 2350 ±10% |
| Carbon Black Content, (%) | ASTM D 1603 | 2,0 - 3,0 | | | | |
| Carbon Black Dispersion | ASTM D 5596 | 9 in Categories 1 or 2 and 1 in Category 3 | | | | |
| Density, (gr/cm ³) | UNE 1183 | ≥0,94 | | | | |
| Tear resistance (kN/m) (LxT) E | N ISO 34 - 1 | 120 (-10%) | 130 (-10%) | 132 (-10%) | 135 (-10%) | 140 (-10%) |
| Yield strength (kN/m) min | ASTM D 6693 tipo IV | 11 | 15 | 22 | 29 | 37 |
| Break strength (kN/m) min | ASTM D 6693 tipo IV | 19 | 22 | 35 | 50 | 67 |
| Yield elongation (%) min | ASTM D 6693 tipo IV | 12 | | | | |
| Break elongation (%) min | ASTM D 6693 tipo IV | 700 | | | | |
| Stress at yield (Mpa) | EN ISO 527 | 16 | | | | |
| Elongation at break (%) (LxT) | EN ISO 527 | 800 | | | | |
| Puncture resistance (N) min | ASTM D 4833 | 240 | 320 | 480 | 640 | 730 |
| Resistance to impact (mm) min | EN 12691 met A | 500 | | | | |
| Static puncture resistance (kN) | EN ISO 12236 | 2,0 (-0,2) | 3,0 (-0,3) | 4,5 (-0,45) | 5,5 (-0,55) | 6,5 (-0,65) |
| Tensile resistance (max tens. stress) (MPa) (LxT) | EN ISO 527 | 30 (-3) | | | | |
| Tear resistance, (N) min | ASTM D 1004 | 93 | 130 | 187 | 249 2 | 90 |
| Water permeability (m ³ /m ² dia) | EN 14150 | ≤10 ⁻⁶ | | | | |
| Gas permeability, (cm ² /seg*atm) | ASTM D 1434 Proc. V | ≤10 ⁻⁷ | | | | |
| Cold folding resistance | EN 495-5 | No cracks | | | | |
| Coefficient of Linear Thermal Expansion (1/K) | ASTM D 696 | 1,56x 10 ⁻⁴ | | | | |
| UV resistance (20 hr. UV cycle at 75°C + 4 hr. condens. at 60°C) HPOIT- % after 1600 hrs | ASTM D 5885 | 50% | | | | |
| Resistance to leaching | EN 14415 | Fulfils the requirements | | | | |
| Resistance to chemicals | EN 14414 | Fulfils the requirements | | | | |
| Microbiological resistance | EN 12225 | Fulfils the requirements | | | | |
| Reaction to fire | EN ISO 11925-2 | Clase E | | | | |
| Resistance to roots | prCEN/TS 14416 | No penetration | | | | |
| Oxidative Induction Time (OIT), min. | ASTM D 3895 | ≥100 | | | | |
| Durability and resistance for oxidation | | Fulfils the requirements | | | | |
| Weathering conditions resistance (%) | EN 12224 EN 14575 ASTM D 5397 | Fulfils the requirements | | | | |
| Environmental stress crack resistance (H) | | 300h | | | | |