**UREASPRAY 400**

UREASPRAY 400 is a high end 100% pure aromatic polyurea hot spray system for waterproofing of concrete structures and protection of steel surfaces with excellent mechanical and chemical properties.

### Applications

Protection for concrete steel and wood  
Protection against wear and abrasion  
Protection against corrosion and chemicals  
Waterproofing membrane for concrete structures and roofs

Waterproofing and coating of surfaces such as:

- Interiors and exteriors of steel and concrete ponds  
- Tunnels (coating or waterproofing, Cut and Cover method and immersed tunnel segments)  
- Primary and secondary containment of fluids (parapets)  
- Ponds and tanks in general  
- Pools in industrial processes  
- Reservoirs, viaducts and irrigation canals  
- Bridge pillars and decks  
- Waterproofing of roofs for industrial warehouses  
- Subway stations (ceiling and floor)  
- Sealing of joints (prefabricated elements)  
- Bonding of walls, floors and expansion joints  
- Cellars and refrigeration tunnels  
- Vehicles, boat decks, industrial parts subject to wear  
- Repair of concrete and substrates in general  
- Surfaces subject to abrasion  
- ...  

### Advantages

- Easy and fast application with machine  
- High abrasion and wear resistance  
- High elongation  
- High shock and impact resistance  
- High resistance to corrosion and chemical attack  
- Continuous waterproofing membrane  
- Ultra rapid reactivity (seconds)  
- Excellent adhesion to metal, concrete and foam
The UREASPRAY system

- 3 - dimensional application
- No risk to environment
- VOC and solvent free
- Bacteriologically stable
- ...

Preparation:

Adequate surface preparation is mandatory for success.

Thoroughly clean the surface in order to have a good adhesion. All dust, grease, paint and loose particles are to be removed. Apply UREASPRAY 400 only on dry and clean surfaces. Further consult Method Statement or technical staff.

Primers:

For metals: UREAPRIM METAL
For concrete: UREAPRIM CONCRETE
For porous and bad concrete surface: UREAPRIM THIX

UREASPRAY 400:

UREASPRAY 400 is hot sprayed with a 2 component high pressure reactor (type Graco EXP2). This spray coating has a very short reaction time and can be applied 3 dimensionally in layers with thickness from 1 mm to 5 mm.

Topcoat:

For protection against UV and surface discoloration use UREATOP SW, a high quality elastic aliphatic topcoat.

Accessories:

UREA GUNCLEANER and UREA REPAIR.

IMPORTANT:

- UREASPRAY 400 can only be used by fully trained professional applicators. Consult or network.

- For all applications consult our general Method Statement or our technical staff.
### Technical data
- Volatile Organic Compounds – VOC (g/l): 0
- Viscosity (CPS) COMP A/ COMP B: 800/750
- Service temperature (°C): -20 to 85
  Max. temperature for occasional use (°C): 150
- Density (g/cc): 1.12
- Gel time (sec): 5
- Walkable (min): 5
- Full cure 100% (h): 24
- Tensile strength (PSI, MPa): 3046-21 (NBN EN 12311-2)
- Elongation (%): 345-400 (NBN EN 12311-2)
- Shore A hardness: 92
  Shore D hardness: 45
- Abrasion resistance
  mg lost, Taber method, (1,000g/1,000 cycles): 26
- Adhesion to concrete: >434, >3
  Adhesion to steel: >651, >4.5
  Pull off test (PSI, MPa): NBN EN 1542
- Crack bridging: Class B3.1
  (Fracture containment capacity at -10°C): NBN EN 1602-7
- Capillary absorption (kg/m.h): <0.02
- Water vapour permeability: Class // (2.1 g/day/ m²)
  EN ISO 7783
- UV resistance – 500 h (50°C, 50 W/m²): compliant
- Atmospheric humidity during application: 15 - 90 %
- Peeling (N/mm): 70
- Shear strength (N/mm): 40
- Reaction to fire: not measured
- Safety: consult MSDS data

### Consumption

<table>
<thead>
<tr>
<th>+/- 1,05 kg/mm/m²</th>
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<td>Standard thickness for application: 2 mm</td>
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### Packaging

<p>| Component A (amine) |</p>
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<tr>
<th>Component B (ISO)</th>
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<tr>
<td>One set 450 kg</td>
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<td>One set 120 kg</td>
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### Security

Consult MSDS security safety data sheets.

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