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*water based industrial polymers*



## Ottopol WRX-40 Technical Data Sheet

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### Product Specifications

Description -----Anionic Acrylic Emulsion  
Solids -----42.0 - 44.0%  
pH-----7.2 – 7.8  
Viscosity -----100 cps Max  
Flash Point -----Same as Water  
MFFT ----- 40 Degrees C  
Tg----- 39 Degrees C

Appearance-----Translucent Emulsion  
Specific Gravity ----- 1.06165  
Weight/Gallon ----- 8.85  
Freeze Thaw Stability - Keep from Freezing  
FDA Status-----None  
USDA Status -----None

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## Self Cross Linking Acrylic Polymer Emulsion

Ottopol WRX-40 is a unique acrylic polymer that results in a high density cross linked polymer upon drying at room temperature. Many Coatings can be derived from this polymer where solvent resistance is required.

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# Coatings for Concrete

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## Concrete Coating Starting Point Formula #600-272-1A

(Pre-Mix Component 2 & 3 and add to Component 1)

01. Ottopol WRX-40 -----	655.7
02. Water -----	262.3
03. Glycol Ether EB (Butyl Cellosolve)-----	78.7
04. BYK-028 Defoamer -----	2.6
05. BYK-3450-----	<u>0.7</u>
	1000.0

## Concrete Coating Specifications

Solids -----	27.0 – 29.0%
pH-----	7.0 – 8.0
Viscosity -----	100 cps Max

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## The Concrete Coating's Attributes

The WRX-40 has been internally modified from an interior wood coating to a concrete coating. The evaluation is ongoing at this time. Here are the current results of testing on concrete using the lab number of 600-272-1A, which is a formulated version of Ottopol WRX-40:

### Concrete Coating Performance Evaluation | 600-272-1A

#### 1. Moisture Wicking / Submersion Test

**Objective:** Evaluate the resistance of the 600-272-1A coating to moisture intrusion, blistering, and blushing when exposed to prolonged water wicking through a concrete substrate.

#### Procedure:

- A concrete block was cast and allowed to cure for **4 hours**.
- One coat of **600-272-1A** was applied using a bristle brush.
- The coated block was allowed to **air dry for 48 hours**.
- The block was then placed into a shallow pan filled with water so that **half of the block was submerged**. Moisture was allowed to migrate upward through the concrete and into the coated region.
- The exposure period lasted **2 weeks**.

#### Results:

- No blushing observed.
- No blistering or bubbling.
- **No film defects** such as lifting, softening, discoloration, or loss of adhesion.
- Coating remained fully intact after prolonged moisture wicking.

**Conclusion:** 600-272-1A demonstrates **excellent moisture resistance** and shows no sensitivity to extended water exposure via substrate wicking.

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## 2. Chemical Spot-Resistance Test

**Objective:** Assess short-term spot resistance of the coating to common automotive and household liquids.

**Procedure:**

- A concrete block cured for **15 days** was used.
- One coat of **600-272-1A** was applied with a bristle brush and allowed to **air dry for 24 hours**.
- Small drops of the following liquids were placed on the coating surface:
  - ❖ Brake Fluid
  - ❖ Motor Oil
  - ❖ Transmission Fluid
  - ❖ Windshield Wiper Fluid
  - ❖ Antifreeze
  - ❖ Bleach

The chemicals remained on the surface for **5 hours** and were then wiped off.

**Results:**

- **Brake Fluid:** No visible effect.
- **Motor Oil:** No visible effect.
- **Antifreeze:** No visible effect.
- **Windshield Wiper Fluid:** Left a **small blue ring** on the coating surface (dye staining only). This was easily removed with a household cleaner.
- **Transmission Fluid:** **Partially penetrated** the coating in one small localized spot, staining the concrete below. The remainder of the drop did **not** penetrate. After several day the stain disappeared.
- **Bleach:** Caused **slight surface damage**, though the coating remained mostly intact and did not fail completely.

**Conclusion:** 600-272-1A provides **good general chemical resistance** to common automotive fluids, with minor susceptibility to dye-containing liquids (wiper fluid) and stronger polar solvents/oxidizers (transmission fluid in one spot and bleach). The stain of the transmission fluid did disappear over time. Overall, the coating-maintained integrity and adhesion after chemical exposure.

### Overall Performance Summary

- Strong resistance to **prolonged water exposure** with no blushing, blistering, or coating degradation.
  - Coating remained structurally sound in all tests, showing no peeling, softening, or delamination.
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### 3. Stain Resistance to Common Household Items

WRX-40 has excellent stain resistance when exposed to the following items for a minimum of **16 hours**:

- ❖ Black Berry Juice,
- ❖ Black Tea,
- ❖ Butter,
- ❖ Cola,
- ❖ Condensed Milk,
- ❖ Detergent Solution,
- ❖ Instant Coffee,
- ❖ Olive Oil.

WRX-40 has excellent stain resistance when exposed to the following items for a minimum of **6 hours**:

- ❖ Beer,
- ❖ Mustard,
- ❖ Onion,
- ❖ Sodium Chloride Solution 5%,
- ❖ White/ Red Wine

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