Ottopol KO Technical Data sheet

Product Specifications

| Description -- Cationic Styrene/Acrylic Emulsion | Appearance ------------------- Translucent Emulsion |
| Solids ----------------------------------------- | Specific Gravity---------------------- 1.059 |
| pH ------------------------------------------ | Weight/Gallon ------------------------- 8.83 |
| Viscosity ----------------------------------- | Freeze Thaw Stability---------- 5 Cycles |
| Flash Point ---------------- | Glass Transition Temperature -----0 Degrees C |

Ottopol KO Polymer’s Attributes

✓ Blocks Tannin Oils: Tannin oils from wood, such as redwood, red cedar and other species are easily blocked with Ottopol KO.

✓ Blocks Stains on Drywall: Hard to block washable markers are effortlessly blocked, as well as other types of markers including felt tip markers. Lipstick and Vaseline will also be blocked with this polymer.

✓ Blocks Water Stains from Concrete Blocks in Basements: Damp basements are a common problem, particularly here in the United States. Ottopol KO forms a water proof barrier under these wet conditions, eliminating unsightly stains on basement walls.

✓ Blocks Fungal Growth in Damp or Humid Environments: High humidity environments cause the growth of mildew. The cationic nature of Ottopol KO forms natural barrier of the growth of fungi.

✓ Excellent Adhesion: Ottopol KO and products made from this polymer display excellent adhesion to a variety of surfaces.
Starting Point Formula for Stain Blocking Primer

Grind “A”

1) Water---------------------19.80 1.75%
2) Ottopol KO---------200.00 17.68% Polymer Gellner Industrial, LLC
3) BYK 022-------------2.50 0.22% Defoamer BYK
4) Minex 4--------------200.00 17.68% Filler The Cary Company
5) Kronos 2310--------200.00 17.68% TiO2 Kronos
6) Zinc Omadine--------3.38 0.30% Biocide Lonza

625.68

Procedure: Add components 1 through 6 in the order listed to a high shear disperser while mixing. Allow to mix at high shear for 15 - 30 minutes after all ingredients are charged to mixing vessel. Grind temperature should be between 70 and 80 C. If grind goes over 90 C you may experience precipitation of the resin.

Letdown “B”

1) Ottopol KO--------377.20 33.34% Polymer Gellner Industrial, LLC
2) Water-------------112.00 9.90%
3) BYK 022-------------2.50 0.22% Defoamer BYK
4) BYK-3450----------2.64 0.23% Wetting Agent BYK
5) Rheobyk H6500VF-11.30 1.00% Rheology Modifier BYK

505.64

Procedure: Reduce mixer speed in grind “A” to low shear and add components 1 through 5 in the order listed.

Total Charge: ---------------------------------------------------- 1,131.32
Viscosity is approximately--------------------------------- 95 KU
Theoretical Solids: ------------------------------------------58.5%
Recoats with top coat----------------------------------------- One Hour
VOC Level--------------------------------------Primer Formula is 21.6 g/l (Acetic Acid in Polymer)

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