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# Floor Pro

## TECHNICAL DATA SHEET

### DESCRIPTION

**Floor Pro** is Additive Package for Polymer Floor Polishes. Facilitates easy 3-Step formulation of water-based Floor Polishes.

**Floor Pro** is a revolutionary chemical system designed to provide an exceptionally simple and reliable means to produce Polymer Floor Polishes of up to 25% genuine activity - in 3 Easy STEPS! All you need to do is to select a Polymer Emulsion of your choice, add this to your water portion, followed by Floor PRO and thereafter add in your E-Wax HWE30; top this off with some EcwaCide IT as the preservative, and you're ready to go!

### FORMULATION/COMPOSITION

**Floor Pro** has been specifically designed with the South African market in mind. It is intended for use with any of the commonly available Zinc cross-linked Acrylic or Styrene/Acrylic Polymer Emulsions. Like most of our local formulations, it can also make good use of a single wax emulsion for greater economy. **Floor Pro** is the result of extensive research done towards establishing the reasons behind many of the problems associated with the making of Polymer Floor Polishes in the conventional way. No longer will you have to worry about shocking the emulsion through incorrect addition rates or order, or incorrect choice of plasticizer or coalescent. No more post-production thickening, separation or poor performance. No more unhappy customers!

### PROPERTIES/APPLICATIONS/USE

**Floor Pro** offers you cost effective solution, no more expensive than doing it the hard way.

**Floor Pro** offers you reliable and consistent results every time.

**Floor Pro** offers you all in One Coalescent, Plasticiser, Adhesion & Leveling system.

**Floor Pro** offers you no more costly, slow-moving stock holding.

**Floor Pro** offers you safe & simple to use.

**Floor Pro** Does not contain Formaldehyde.

### PHYSICAL & CHEMICAL PROPERTIES

Appearance	Amber, transparent fluid	% Active Content	100%
S.G. (at 20°C)	0.99 - 1.0 g/cm <sup>3</sup>	Non-volatile content	48-52%
Solubility	Partially soluble in water	Ionic Character	Anionic
pH (as manufactured)	8.5 - 9.5		

This data does not constitute a specification - please see current "Certificate of Analysis". For further data please also request a copy of the MSDS (Material Safety Data Sheet).

#### MANUFACTURER/SUPPLIER

Ecwamix Chemical Systems (Pty) Ltd  
3 Granville Avenue Lea Glen Rodepoort, Gauteng South Africa

**Information**  
Tel: (o/h) +27 011 472 2256 Fax: +27 011 472 2121  
E-mail: ecwamix@netactive.co.za

**Emergency contact:**  
Office hours: 011 472 2256



#### SAFETY & HANDLING

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### DIRECTIONS FOR USE

There are two simple methods to produce Floor Polishes using **Floor Pro**.

**The first** is to produce a 25% active Polish and then dilute this down to any other desired level of activity. This might require a little more care in the initial processing but can save a lot of time in the long run. In this method it is best to charge the mix vessel with 70% of the required water add a preservative then, with gentle but thorough stirring throughout the process, proceed to add the Polymer Emulsion to the water. After a couple of minutes of stirring you will begin to slowly and steadily add the **Floor Pro**, and allow this to mix in for 30 minutes! In a separate vessel, add the **E-Wax HWE30** to the remaining 30% of water; and then also introduce this mix slowly and steadily to the main batch; allow to mix for a further 20 minutes.

**The second** option (for lower activity levels) is to follow any of our other simple formulations overleaf. All the required water is added to the mix vessel, followed by the Polymer Emulsion. As above the **Floor Pro** is added gently, followed by 30 minutes of stirring. Thereafter one can gently add the E-Wax HWE30 and stir for a further 20 minutes. In all instances mixing is best achieved with a conventional prop stirrer - do not allow air to become entrained!

### STORAGE

At least 1 year at ambient conditions.

### PACKAGING

Floor Pro is available in

- 25 Kg - HDPE BLOWPACK
- 200 Kg - HDPE BLOWPACK
- 1000 Kg - IBC (FLOBIN)

### GUIDELINE FORMULATIONS - OPTION 1: 25% POLYMER FLOOR POLISH

**Option 1:** To make up a 25% Polymer Floor Polish; and dilutions to lower activity levels.

**Note:** *Mixing of the batch must be continuous from after the water has been charged to the main mix vessel, throughout the process, until complete! The best form of mixing is achieved by an ordinary propellor or paddle mixer that can provide a thorough but gentle stirring of the entire batch.*

#### DISCLAIMER / NON-WARRANTY

This product has been subjected to limited tests and has been shown to perform well. The information contained herein is to our best knowledge true and accurate, but since the conditions of use are beyond our control, Ecwamix Chemical Systems cc. disclaims any liability in connection with the use of this product and/or information. Warranty extends only as far as to the replacement of material shipped if not compliant with the specification as set out in the attached "Certificate of Analysis" and within the expiry period of the said product. All recommendations or suggestions are made without guarantee. It is good practice to conduct one's own application tests on a small area prior to using the product.



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### GUIDELINE FORMULATIONS - OPTION 1: 25% POLYMER FLOOR POLISH

Polymer Floor Polish 25% (more Buffable, less Slip)			Polymer Floor Polish 25% (more Buffable, less Slip)		
Part A	Order	% USE	Part A	Order	% USE
Water	1	26.4%	Water	1	27.4%
EcwaCide IT (Preservative)	2	0.1%	EcwaCide IT (Preservative)	2	0.1%
Polymer Emulsion 38%	3	44.0%	Polymer Emulsion 38%	3	47.0%
Part B	Order	% USE	Part B	Order	% USE
Floor Pro	4	8.5%	Floor Pro	4	8.5%
Part C	Order	% USE	Part C	Order	% USE
Water	5	7.0%	Water	5	6.0%
E-Wax HWE30	6	14.0%	E-Wax HWE30	6	11.0%
<b>Total</b>		<b>100.0%</b>	<b>Total</b>		<b>100.0%</b>

#### Polymer Emulsion 38%

TECRYL FC	(Protea Speciality Chemicals)
Revacryl 6075 or 6081	(Revertex/CIM)
Primal B924	(Rohm & Haas/Servochem)
Suncryl 624	(Sancryl/Crest)

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### BLENDING INSTRUCTIONS - OPTION 1

**Step 1 - (Part A)** Charge mixing vessel with water (1), add preservative (2), add the Polymer Emulsion (3) and stir for 3 minutes.

**Step 2 - (Part B)** Slowly and gently add the **FLOOR PRO** (4) and allow to mix for 30 mins.

**Step 3 - (Part C)** In a separate vessel blend the Water (5) with the **E-Wax HWE30** (6). Then Add this **slowly** and **gently** to the main batch.

Continue stirring for a further 20 minutes.

The 25% Polish formed above can now easily be diluted down to any lower level of activity by using the chart below:

<b>DILUTIONS to Lower Activity Levels (using the 25% Polymer Floor Polish from above)</b>								
<b>Ingredients</b>	23.0%	21.0%	20.0%	18.0%	16.0%	15.0%	13.0%	10.0%
<b>Water</b>	8.0%	16.0%	20.0%	28.0%	36.0%	40.0%	48.0%	60.0%
<b>EcwaCide IT</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%
<b>25% Polymer Floor Polish</b>	92.0%	84.0%	80.0%	72.0%	64.0%	60.0%	52.0%	40.0%
<b>TOTAL</b>	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

### GUIDELINE FORMULATIONS - OPTION 2: POLYMER FLOOR POLISH AT ANY GIVEN ACTIVITY LEVEL

**Option 2:** To make up a Polymer Floor Polish at any given activity level.

**Note:** Mixing of the batch must be continuous from after the water has been charged to the main mix vessel, throughout the process, until complete! The best form of mixing is achieved by an ordinary propellor or paddle mixer that can provide a thorough but gentle stirring of the entire batch.

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### GUIDELINE FORMULATIONS - OPTION 2: POLYMER FLOOR POLISH AT ANY GIVEN ACTIVITY LEVEL

Polymer Floor Polish 22%		
Part A	Order	% USE
Water	1	41.4%
EcwaCide IT (Preservative)	2	0.1%
Polymer Emulsion 38%	3	38.5%
Part B	Order	% USE
Floor Pro	4	7.5%
Part C	Order	% USE
E-Wax HWE30	5	12.5%
<b>Total</b>		<b>100.0%</b>

Polymer Floor Polish 20%		
Part A	Order	% USE
Water	1	47.1%
EcwaCide IT (Preservative)	2	0.1%
Polymer Emulsion 38%	3	36.0%
Part B	Order	% USE
Floor Pro	4	6.8%
Part C	Order	% USE
E-Wax HWE30	5	10.0%
<b>Total</b>		<b>100.0%</b>

Polymer Floor Polish 15%		
Part A	Order	% USE
Water	1	60.3%
EcwaCide IT (Preservative)	2	0.1%
Polymer Emulsion 38%	3	27.0%

Polymer Floor Polish 12.5%		
Part A	Order	% USE
Water	1	66.6%
EcwaCide IT (Preservative)	2	0.1%
Polymer Emulsion 38%	3	22.0%

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### GUIDELINE FORMULATIONS - OPTION 2: POLYMER FLOOR POLISH AT ANY GIVEN ACTIVITY LEVEL

Polymer Floor Polish 15% continued			Polymer Floor Polish 12.5% continued		
Part B	Order	% USE	Part B	Order	% USE
Floor Pro	4	7.5%	Floor Pro	4	6.8%
Part C	Order	% USE	Part C	Order	% USE
E-Wax HWE30	5	12.5%	E-Wax HWE30	5	10.0%
<b>Total</b>		<b>100.0%</b>	<b>Total</b>		<b>100.0%</b>

Polymer Emulsion 38%	
TECRYL FC	(Protea Speciality Chemicals)
Revacryl 6075 or 6081	(Revertex/CIM)
Primal B924	(Rohm & Haas/Servochem)
Suncryl 624	(Sancryl/Crest)

### BLENDING INSTRUCTIONS - OPTION 2

**Step 1 - (Part A)** Charge mixing vessel with water (1), add preservative (2), add the Polymer Emulsion (3) and stir for 3 minutes.

**Step 2 - (Part B)** Slowly and gently add the **Floor Pro** (4) and allow to mix for 30 mins.

**Step 3 - (Part C)** Add the **E-Wax HWE30** (5) slowly and gently to the main batch.

Continue stirring for a further 20 minutes.

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