



## *Hycrete Polymer*

*Make concrete and mortar for more flexible and adhesive*

### Description

An acrylic admixture polymer designed to address the drawbacks of polymer modifiers while maintaining the benefits has been developed.

An acrylic backbone was chosen because it offers a balance of performance and cost with particular reference to hydrolysis resistance and exterior durability. To this acrylic backbone a unique reactive monomer was incorporated, the resulting patented polymer actually uses the cement matrix as a catalyst to affect a chemical cross-link reaction.

This thermosetting polymer exhibits significant improvements in performance over ordinary polymer admixtures. These improvements are most notable in the following areas.



### Advantage

- Elimination of air entraining
- Flexible and adhesive bond strength
- Reduced water sensitivity
- Decorative stenciled overlays
- Self-leveling industrial floor overlays
- Trowel-on toppings
- Compressive strength
- Abrasion resistance
- Chemical resistance
- Thick section cure
- Easy to maintain and repair, if ever required

### Characteristic

Appearance	: Milk White Liquid
Solid Content	: 46% to 48%
pH	: 9.5 to 10.0
Specific Gravity	: 1.059
Weight per Liter	: 8.8 lbs
Freeze-Thaw Stability	: 5 cycles
Med Film Formation Temp.	: 10 –12 °C

## **Introduction for Use**

Hycrete Polymer (Liter)	Clean Water (Liter)	Portland Cement I/III (Liter)	Clean/Dry Silica Sand (Liter)	Grit Size	Rock Amount (Liter)	Rock Size	Total Area (sq.m.)	Thickness Of Application (mm.)
1	2	3	6-9	-----	-----	-----	5-6	1.5
1	2	3	6-9	-----	-----	-----	2.5-3	3.0
1	2	3	7.5-9	-----	-----	-----	1.3-1.5	6.0
1	3	4	8	#16/20/30	8	3/8 "	1.125	12
1	3	4	8	#16/20/30	8	3/8 "	0.675	20
1	4	5	10	#16/20/30	10	3/8 "	0.68	25
1	4	5	10	#16/20/30	10	3/8 "	0.57	30
1	6	7	14	#16/20/30	14	3/8-1/2"	0.60	40
1	6	7	14	#16/20/30	14	3/8-1/2"	0.53	45
1	10	11	22	#16/20/30	22	3/8-1/2	0.66	50

Method of Application : Steel Trowel and/or Aluminum Screed Rod [ 2 to 12 feet wide ]

When mixing in rock for application that are ½ inch or deeper, follow these mixing instruction:

1. Combine the Hycrete Polymer and water together in a separate container in the proportion given on the mixing chart. [For example batches, substitute cup, pint or quart for liter)
2. Pour ½ of the polymer and water mixture into a concrete mixer or your mixing container.
3. Start the concrete mixer or use the wheelbarrow and shovel method.
4. Add all of the sand and rock shown on the mixing chart [or, if making a smaller batches, according to the standard unit of measurement you select for the polymer, water and cement]
5. Add all of the sand and rock shown on the mixing chart [or smaller batches, according to the standard unit of measurement you select the polymer, water and cement]
6. Add more of the polymer and water mix as needed to achieve the consistency or slump desired.

Generally, when rock is being used, one half to three quarters of the combination of concrete polymer and water per the mixing chart will be all that is needed to achieve the proper slump or consistency.

Note: For mixing instruction on application from zero to ½ inch thick where no rock is used, refer to page nine for the step-by-step procedures.

## **Packaging**

In pail of 20 L.

<b>Act (Thailand) Co., Ltd.</b>	
Address : 19 Moo 1 Kubangluang Lardlumkaew Pathumthai 12140 Tel. : (66)-0-2979-4446-9 , (66)-0-29794936-9 Fax. : (66)-0-2979-4445 Email : <a href="mailto:info@actthai.com">info@actthai.com</a> Web Site : <a href="http://www.actthai.com">http://www.actthai.com</a>	Non-warranty. The information contained herein is believed to be reliable to the best of our knowledge. However, all recommendations are made without guarantee of performance and with warranty of freedom from legal responsibility including patent liability on the part of Act (Thailand) Co., Ltd