



TEXICRYL[®] 13-190

Styrene acrylic copolymer

INTRODUCTION

TEXICRYL[®] 13-190 is a styrene acrylic copolymer emulsion designed for use in high performance adhesives, inks, and coatings where flexibility and/or cold temperature flexibility are desired.

Various start point formulations available.

CHARACTERISTICS (Not to be taken as a specification)

Solids content	52.5 ± 1 %
Viscosity at 25°C (Brookfield RV, Spindle #2, 20 rpm)	400 – 2000 cP
pH	7.5 – 8.5
Emulsifying system	Anionic
Relative Density at 25°C	1.02
Particle Size	120 – 200 nm
Tg	-12°C / 10°F
MFFT	< 0°C / < 32°F

APPLICATIONS

TEXICRYL[®] 13-190 can be utilized in a range of water based adhesives and emulsion paint formulations. It can easily be formulated into coatings varying in properties from semi-gloss finish to high pigment volume concentration low-cost paints. It is particularly suitable as a binder for waterborne adhesives requiring high flexibility and adhesion. This polymer can be blended with harder polymers to yield improvements in flexibility and adhesion. This polymer is designed to tolerate high filler pigment loadings.

STARTING FORMULATIONS

Medium Grit Stucco Formulation

Material	Type	Weight %
Paste:		
Mix the following raw materials at medium speed for 5 minutes using a Cowles blade. Avoid air entrapment.		
DI Water	Solvent	29.51
Natrosol 250MR	Thickener	0.32
Add the following materials under agitation, and adjust pH with ammonia. The system will thicken, increase the mixing speed accordingly.		
Ammonia 26-baume	pH modifier	0.54
Attagel 50	Thickener	4.13
Add the following materials under agitation and mix until the mixture becomes smooth, approximately 5 minutes.		
E-Sperse 100	Dispersant	0.76
Propylene Glycol	Solvent	2.22
BYK-037	Defoamer	1.27
Slowly add TiO ₂ and grind until Hegman is 7.		
TiO ₂ R960	Pigment	10.61
Reduce the speed, slowly add the following raw materials, and mix at low speed for approximately 10 minutes.		
Letdown:		
Butyl Cellosolve	Cosolvent	2.22
Skane M8	Biocide	0.58
BYK-037	Defoamer	0.95
Texicryl 13-190	Acrylic Resin	46.68
Texicryl AD8030	Thickener	0.22
Total:		100
To finish the batch, add 192.4 parts of Best Co 530 medium coarse sand to 100 parts of the above stucco.		

Wet Stucco Properties:

- Viscosity (RV Brookfield Viscometer with #6 spindle at 25°C): 163,000 cP @ 1.0 rpm & 6,150 cP @ 100 rpm.
- pH = 8.30 at 25°C

PACKAGING

TEXICRYL® 13-190 is supplied in a 460 lb. net weight plastic drum.
Bulk supplies are delivered by road tanker.

STORAGE

TEXICRYL® 13-190 can be stored in the containers in which it is supplied.

Protect from temperatures below 40° F.

HEALTH & SAFETY

Please see separate Material Safety Data Sheet.

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NOTICE

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