



A Step Ahead...

QUAKER COLOR

DIVISION OF McADOO & ALLEN, INC.

201 S. HELLERTOWN AVENUE P.O. BOX 219
QUAKERTOWN, PENNSYLVANIA 18951-0219
(215) 536-3520 FAX (215) 536-6464
www.quakercolor.com

Technical Data Sheet

Product Code: MH-1991

Experimental PUD

DESCRIPTION

MH-1991 is an inherently low gloss, high performance, TEA free, soft feel aliphatic polyurethane dispersion. MH-1991 could be crosslinked with isocyanate to further improve chemical resistance properties.

APPLICATIONS

- Automotive Interior
- Consumer Electronics
- Paper and Cosmetic Packaging
- Wood and plastic toys

FEATURES

- Low gloss
- High solids
- HAPS Free
- Soft, velvety feel
- High flexibility, Thermofomable
- Excellent Adhesion to Plastics
- Stable with Al pigments

PROPERTIES

NV %	38-40	60° Gloss	0.6 – 1.2
WPG	8.5 – 9.0	Tensile Strength, psi	3000
pH	7.0 – 9.0	100% Modulus, psi	1300
Viscosity, cPs	10 – 1000	Elongation	390%

STORAGE

Store in a cool, dry place, preferably less than 80°F to ensure a useful shelf life of 18 months. Protect from freezing. Mix before use (Mechanical mixing preferred)



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STARTING POINT FORMULATION

Component 1	Material	Lbs.
PUD	MH-1991	100.00
Defoamer	Foamstar A10	0.50
Surfactant	BYK 347	0.50
<i>For TPO Only</i>		
WB Adhesion Promoter	Auroren AE-301	20.00
Component 2		.25
Isocyanate	EZM 502	6.00
Solvent	PGDA	2.50

Cure Schedule: 30min@80°C, follow by 7 days RT

When sprayed in cold, low humidity conditions the addition of coalescent solvents or additives like Disponil 1080 or Dynol 360 would help with film formation.

CHEMICAL RESISTANCE – 30 minute spot test - covered

Formula 409	No Effect
Dish Soap	No Effect
Spic-n-Span	No effect
Pledge	No effect
Windex	No effect
Household Ammonia	No effect
Antistatic Cleaner	No effect
Hand Cream	No Effect

Quaker Color manufactures all its products under carefully controlled conditions to meet rigid specifications. The values given in this publication are typical values intended as guidelines for the use of the products, they are not specifications. It is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficacy and safety. Should you require the actual specifications currently enforced on specific products contact your Quaker Color representative for the appropriate information.