



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-172

DESCRIPTION

MH-172 is inherently dull soft feel aliphatic polycarbonate urethane dispersion with adhesion over plastic substrates. MH-172 combines silky soft feel with good chemical resistance. The use of isocyanate crosslinkers will further improve chemical resistance.

APPLICATIONS

- Interior automotive plastics
- Cosmetic packaging
- Other applications requiring soft feel, high chemical and UV resistance

FEATURES

- Low gloss
- Soft touch
- Very good suntan lotion and insect repellent resistance
- Excellent resistance to cleaners
- Very flexible, suitable for thermoforming applications
- Very good adhesion to ABS, ABS/PC, PC, TPO*
(* with 20% addition of an waterborne adhesion promoter)
- Thermofomable

PROPERTIES

NV %	33-35	60° Gloss	0.6 – 1.2
Solvent %	6.8 – 7.8	Tensile Strength, psi	3000
pH	8.0 – 9.0	100% Modulus, psi	1300
Viscosity, cPs	50 – 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.



A Step Ahead...

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STARTING POINT FORMULATION

Component 1	Material	Lbs.
PUD	MH-172	100.00
Defoamer	Foamstar A10	0.50
Flow Additive	Modaflow 3000	1.00
Surfactant	BYK 347	0.50
<i>For TPO Only</i>		
WB Adhesion Promoter	Auroren AE-301	20.00
Component 2		
Isocyanate	EZM 502	6.00
Solvent	PGDA	2.50

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

CHEMICAL RESISTANCE

GMW1445	Pass
Artificial Perspiration	No Effect
Hand Cream	No Effect
Beef Tallow	Pass
Formula 409	No Effect
Windex	No Effect
Spic-n-Span	No effect
Pledge	No effect
70% IPA	No effect
Household Ammonia	No effect
Dish Soap	No effect
Antistatic Cleaner	No Effect

Xenon, 1125 KJ/sq.m

ΔE 0.88

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.