

## Product Selection Guide Hauthane Polyurethane Dispersions

### Co-solvent free grades

|         | Type      | Solids<br>(% wt) | Tensile<br>(min psi) | Elong<br>(%) | 100%Mod<br>(psi) | Description  |
|---------|-----------|------------------|----------------------|--------------|------------------|--|
| HD-2015 | Aliphatic | 35               | 4500                 | 440          | 1550             | Medium hard, economical, polyether-based             |
| HD-2024 | Aliphatic | 45               | 4000                 | 750          | 480              | Soft, economical, polyether-based                    |
| HD-4664 | Aliphatic | 50               | 6000                 | 625          | 800              | Soft, good value, polyether/polyester-based          |
| HD-4669 | Aliphatic | 40               | 6300                 | 270*         | 3600             | Hard, good value, polyether/polyester-based          |
| HD-4675 | Aliphatic | 38               | 5900                 | 190*         | 4400             | Hardest, low co-solvent demand, polyester-based      |
| L-3528  | Aliphatic | 35               | 4400                 | 340*         | 2040             | Hard, humidity-resistant, polycarbonate-based        |
| L-3529  | Aliphatic | 35               | 3650                 | 640          | 375              | Soft, humidity-resistant, polycarbonate-based        |
| L-3614  | Aliphatic | 35               | 5760                 | 810          | 1050             | Soft, TEA-free, APEO-free, tin-free, polyester-based |
| L-3615  | Aliphatic | 35               | 6000                 | 260*         | 4300             | Hard, TEA-free, APEO-free, tin-free, polyester-based |

## Hydroxyl functional grades

|             | Type      | Solids<br>(% wt) | Tensile<br>(min psi) | Elong<br>(%) | 100%Mod<br>(psi) | Description  |
|-------------|-----------|------------------|----------------------|--------------|------------------|--|
| HD-6000     | Aliphatic | 35               | 7000                 | 230          | 4850             | Crosslinkable with W/D isocyanates, polyester-based                |
| HD-6002     | Aliphatic | 35               | 6500                 | 220*         | 3900             | Crosslinkable with W/D isocyanates, polycarbonate-based            |
| HD-6000 DMM | Aliphatic | 35               | 7000                 | 230          | 4850             | NMP/APEO-free, crosslinkable with W/D isocyanates, polyester-based |
| HD-6002 DMM | Aliphatic | 35               | 6500                 | 220*         | 3900             | NMP-free, crosslinkable with W/D isocyanates, polycarbonate-based  |

## Pyrrolidone-free/APEO-free grades (DMM-containing)

|             | Type      | Solids<br>(% wt) | Tensile<br>(min psi) | Elong<br>(%) | 100%Mod<br>(psi) | Description  |
|-------------|-----------|------------------|----------------------|--------------|------------------|--|
| HD-2107 DMM | Aliphatic | 35               | 6000                 | 200*         | 3400             | Flexible, abrasion and chemical resistance, polyester-based (L-2877)     |
| HD-2120 DMM | Aliphatic | 35               | 8500                 | 35*NM        |                  | Chemical and stain resistant, polyester-based (L-2882)                   |
| HD-6000 DMM | Aliphatic | 35               | 6825                 | 210*         | 4700             | Hydroxyl-functional for 2K systems, polyester-based (L-2883)             |
| HD-2117 DMM | Aliphatic | 35               | 4850                 | 50*NM        |                  | Excellent flow/leveling, early-water resistant, polyester-based (L-2892) |
| HD-2503 DMM | Aliphatic | 35               | 6375                 | 300*         | 3180             | Humidity and water resistant, polycarbonate-based (L-2896)               |
| HD-2125 DMM | Aliphatic | 35               | 8000                 | 150*         | 5300             | Chemical/alcohol and water resistant, polyester-based (L-2897)           |
| HD-2142 DMM | Aliphatic | 35               | 4515                 | 185*         | 3450             | Adhesion to low-energy plastics and PVC, polyester-based (L-2942)        |
| HD-2101 DMM | Aliphatic | 35               | 5000                 | 500          | 700              | Modifying grade with good water resistance, polyester-based (L-2969)     |
| HD-6002 DMM | Aliphatic | 35               | 6500                 | 220          | 3900             | Hydroxyl-functional for 2K systems, polycarbonate-based (L-2996)         |
| HD-2504 DMM | Aliphatic | 35               | 7800                 | 100*         | 5200             | Humidity and water resistant, polycarbonate-based (L-3101)               |

|        |           |    |      |      |      |   |
|--------|-----------|----|------|------|------|---|
| L-3786 | Aliphatic | 32 | 2400 | 160* | 1850 | Self-crosslinking, polyester-based (L-3155) |
|--------|-----------|----|------|------|------|---|

### Most economical grades<sup>2</sup>

|         | Type      | Solids<br>(% wt) | Tensile<br>(min psi) | Elong<br>(%) | 100%Mod<br>(psi) | Description   |
|---------|-----------|------------------|----------------------|--------------|------------------|---|
| HD-4664 | Aliphatic | 50               | 6000                 | 625          | 800              | Co-solvent free, high solids, polyether/polyester-based |
| HD-4669 | Aliphatic | 40               | 6300                 | 270*         | 3600             | Co-solvent free, medium hard, polyether/polyester-based |
| HD-2024 | Aliphatic | 45               | 4000                 | 750          | 480              | Co-solvent free, soft, polyether-based                  |

### Hardest grades<sup>1</sup>

|         | Type      | Solids<br>(% wt) | Tensile<br>(min psi) | Elong<br>(%) | 100%Mod<br>(psi) | Description   |
|---------|-----------|------------------|----------------------|--------------|------------------|---|
| HD-2120 | Aliphatic | 35               | 8500                 | 35*          | NM               | Chemical and stain resistant, polyester-based                         |
| HD-2117 | Aliphatic | 35               | 4850                 | 50*          | NM               | Chemical and “early-water” resistant, polyester-based                 |
| HD-2125 | Aliphatic | 35               | 8000                 | 150*         | 5200             | Alcohol and stain resistant, polyester-based                          |
| HD-2504 | Aliphatic | 35               | 7800                 | 100*         | 5200             | Exterior durable, humidity resistant, polycarbonate-based             |
| HD-2503 | Aliphatic | 35               | 6825                 | 210*         | 4700             | Exterior durable, humidity resistant, polycarbonate-based             |
| HD-4675 | Aliphatic | 38               | 5900                 | 190*         | 4400             | Co-solvent-free, low VOC potential, exterior durable, polyester-based |
| HD-4669 | Aliphatic | 40               | 6300                 | 270*         | 3600             | Co-solvent-free, economical, polyether/polyester-based                |
| HD-2107 | Aliphatic | 35               | 6000                 | 200*         | 3400             | Flexible, abrasion and chemical resistance, polyester-based           |

## Most chemical-resistant grades<sup>2</sup>

|         | Type      | Solids<br>(% wt) | Tensile<br>(min psi) | Elong<br>(%) | 100%Mod<br>(psi) | Description   |
|---------|-----------|------------------|----------------------|--------------|------------------|---|
| HD-2120 | Aliphatic | 35               | 8500                 | 35*NM        |                  | Very hard, vinyl adhesion, polyester-based. Also see HD-2120 DMM    |
| HD-2117 | Aliphatic | 35               | 4850                 | 50*          | NM               | Fast water-resistant development, polyester-based. Also HD-2117 DMM |
| HD-2125 | Aliphatic | 35               | 8000                 | 150*         | 5200             | Hard, vinyl adhesion, polyester-based. Also see HD-2125 DMM, L-3838 |
| L-3786  | Aliphatic | 32               | 2400                 | 160*         | 1850             | Self-crosslinking, polyester-based. Also see L-3155                 |
| HD-2107 | Aliphatic | 35               | 6000                 | 200*         | 3400             | Flexibility, abrasion-resistance. Also see HD-2107 DMM              |
| HD-4669 | Aliphatic | 40               | 6300                 | 270*         | 3600             | Most economical, co-solvent free                                    |
| L-3838  | Aliphatic | 35               | 8000                 | 150*         | 5200             | Pre-coalesced version of HD-2125 DMM                                |

## Specialty grades

|         | Type      | Solids<br>(% wt) | Tensile<br>(min psi) | Elong<br>(%) | 100%Mod<br>(psi) | Description  |
|---------|-----------|------------------|----------------------|--------------|------------------|--|
| HD-2101 | Aliphatic | 40               | 5000                 | 500          | 700              | Soft, modifying grade, polyester-based (NMP)                             |
| HD-2142 | Aliphatic | 35               | 4515                 | 185*         | 3450             | Adhesion to low-energy plastic substrates and PVC, polyester-based (NMP) |
| HD-2334 | Aliphatic | 45               | 3500                 | 200*         | 2500             | Flame retardant, co-solvent free   |
| HD-2503 | Aliphatic | 35               | 6825                 | 210*         | 4700             | Hard, exterior durable, polycarbonate-based (NMP)                        |
| HD-2504 | Aliphatic | 35               | 7800                 | 100*         | 5200             | Hardest, exterior durable, polycarbonate-based (NMP)                     |

| HD-2602                         | Aliphatic | 35               | 6375                 | 300*         | 3180             | Silicone-modified, polyester-based (NMP)                              |
|---------------------------------|-----------|------------------|----------------------|--------------|------------------|---|
| HD-3810                         | Aliphatic | 35               | 1600                 | 550          | 385              | Rubbery, soft-feel, co-solvent free, polyether-based                  |
| <b>Specialty grades (con't)</b> |           |                  |                      |              |                  |   |
|                                 | Type      | Solids<br>(% wt) | Tensile<br>(min psi) | Elong<br>(%) | 100%Mod<br>(psi) | Description   |
| HD-3820                         | Aliphatic | 35               | 2100                 | 700          | 360              | Silky, soft-feel, co-solvent free, polyether-based                    |
| HD-3830                         | Aliphatic | 35               | 980                  | 500          | 380              | Slick, soft-feel, co-solvent free, polyether-based                    |
| L-3360                          | Aliphatic | 35               | 1600                 | 370          | 700              | Partially bio-renewable based, soft (NEP)                             |
| L-3369                          | Aliphatic | 35               | 2700                 | 300          | 2050             | Partially bio-renewable based, hard (NEP)                             |
| L-3415                          | Aliphatic | 35               | NM                   | NM           | NM               | UV-curable, VOC-free, very hard, polyester-based                      |
| L-3632                          | Aliphatic | 35               | 3375                 | 370          | 1040             | Non-ionic, polyester-based, low VOC content (DMM)                     |
| L-3645                          | Aliphatic | 35               | 6000                 | 300*         | 3000             | Silicone-modified, polyester-based with dye transfer resistance (DMM) |
| L-3685                          | Aliphatic | 35               | NM                   | NM           | NM               | UV-curable, very hard, polycarbonate-based (NMP)                      |
| L-3786                          | Aliphatic | 32               | 2400                 | 160*         | 1850             | Self-crosslinking, polyester-based (DMM)                              |
| L-3790                          | Aliphatic | 35               | NM                   | NM           | NM               | UV-curable, very hard, polycarbonate-based (DMM)                      |

\* ASTM method D882-91 for hard polymers - Crosshead speed of 2 in/min vs 20 in/min for other polymers.

<sup>1</sup> Ranked by 100% modulus results.

<sup>2</sup> Based on chemical spot test results for a variety of solvents, acids, bases and cleaning agents.

Technical Data Sheets for each available at [www.hauthaway.com](http://www.hauthaway.com)

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