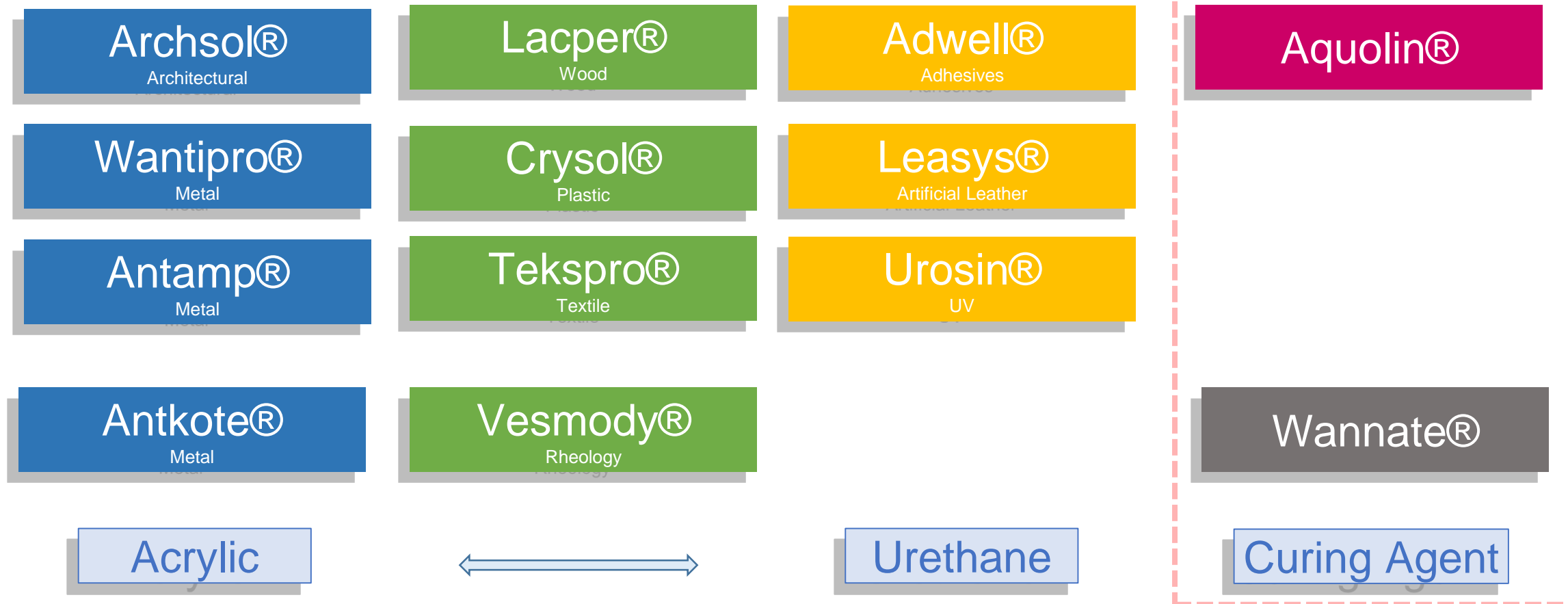


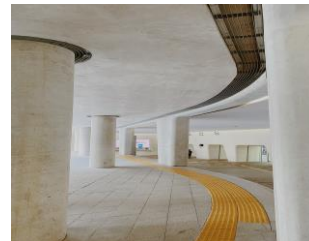
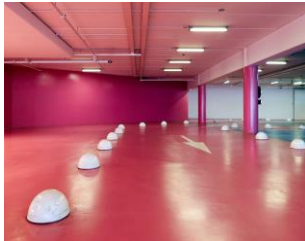
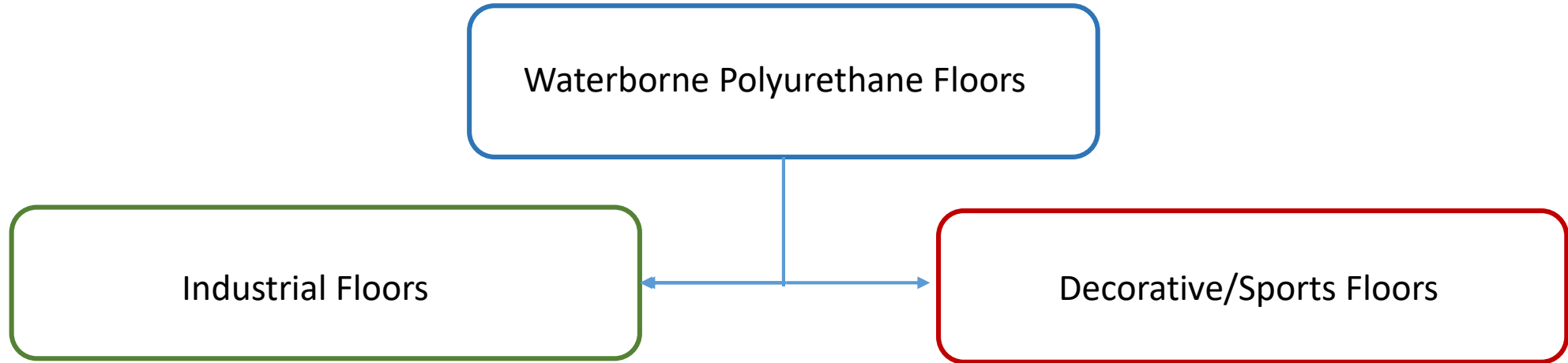


Wanhua Waterborne Technology Platform - Flooring

Bruce Lin

January 2021





Self-levelling cement mortar/Epoxy primer
1K/2K Primer
2K Topcoat
(2K Varnish)

1K/2K Primer
1K/2K Topcoat (Artistic)



Varnish

Antkote® 2042

Archsol® 8576

Topcoat

Leasys® 5531

Leasys® 3900

Archsol® 8090

Antkote® 2042

Archsol® 8576

Antkote® 2702

Primer/Sealer

Archsol® 8090

Archsol® 8210

Antkote® 2702

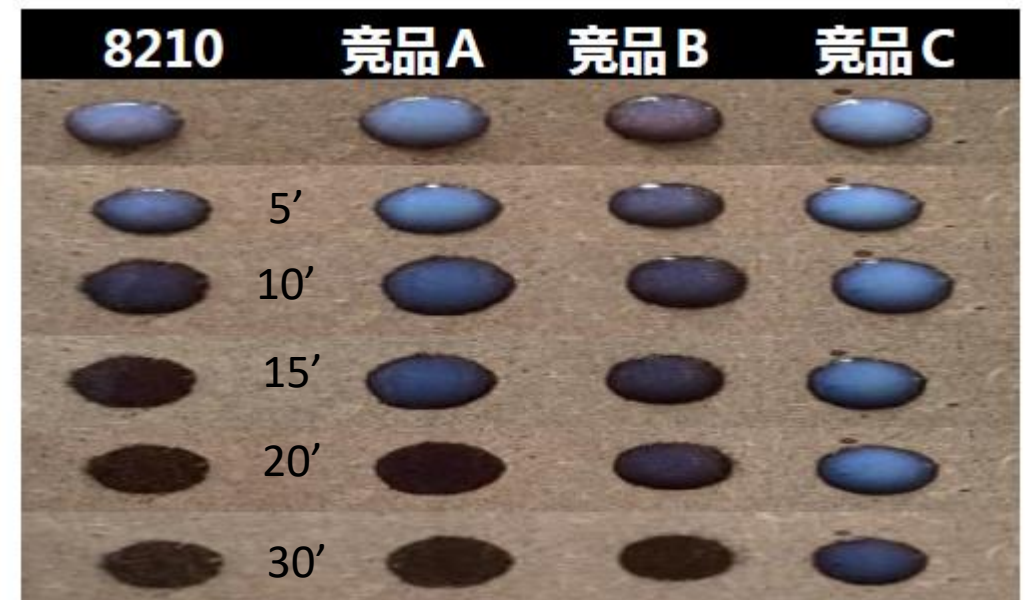
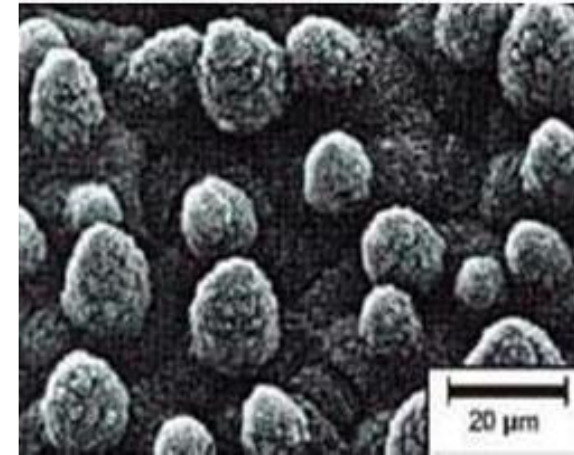


Unique Selling Points:

- The emulsion has a very small particle size and strong permeability, effectively sealing the small pores of the wall.
- The paint film has good water resistance, water repellency and breathability.
- Prevent efflorescence and salt precipitation.
- It can be used for strong alkaline substrates, without film-forming additives, and is easy to use.

Most effective use: 1K Primer & Sealer

Lotus Leaf Surface Structure

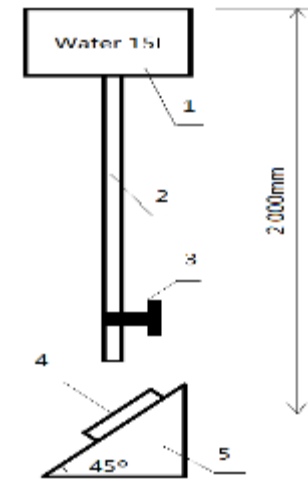


Unique Selling Points:

- The emulsion very good hardness due to its high $T_g(>60^{\circ}\text{C})$, combined with other PA to improve hardness
- It can offer outstanding dirty pick-up resistance
- It can be used for exterior latex paint, clear topcoat, concrete sealer and masonry sealer

Most effective use: 1K Primer, Sealer & Topcoat

| | Benchmark | Archsol® 8090 |
|---------------------------------|-----------|---------------|
| 4 th round DPUR test | 6% | 3% |
| 6 th round DPUR test | 10% | 4% |



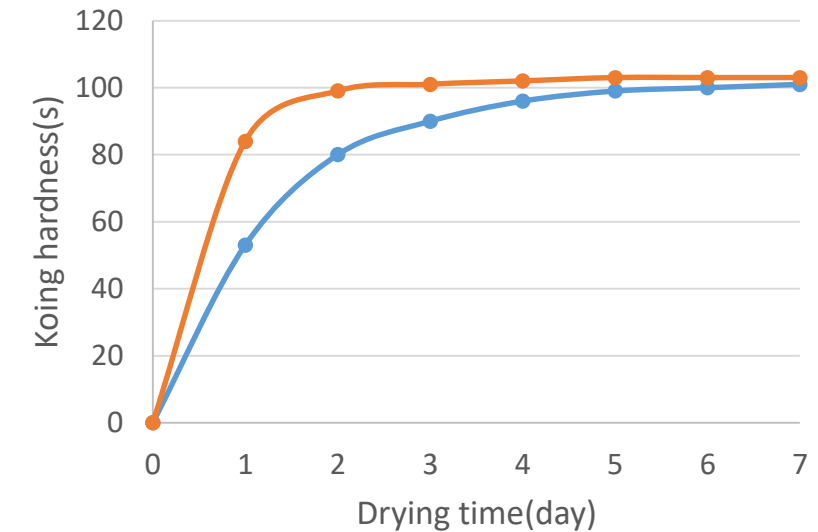
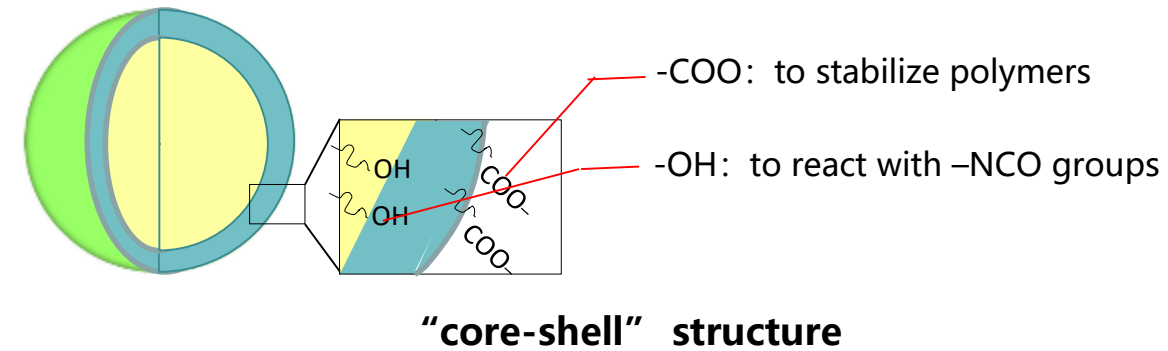
1. Water tank 15L
2. Tube $\text{Ø}8\text{mm}$
3. Valve
4. panel
5. Brandreth

Fig.1 test equipment
(Reference: GB/T 9780-2013)



Unique Selling Points:

- No aromatic solvents, no butyl glycols ! (7% PnB)
- Excellent chemical resistance for high performance topcoats
- Fast drying & high hardness
- Excellent blocking resistance, very high scratch and mar resistance
- High gloss films & good body
- Can easily be combined with other binders to broaden scope of applications



Hardness development

Most effective use: 2K PUR Primer & Topcoat



Unique Selling Points:

- The emulsion has a very small particle size and excellent permeability, good hardness and flexibility
- It can have good solvent stability and good film formation
- Aliphatic PU with good UV resistance and wear resistance



Most effective use: 1K Primer & Topcoat

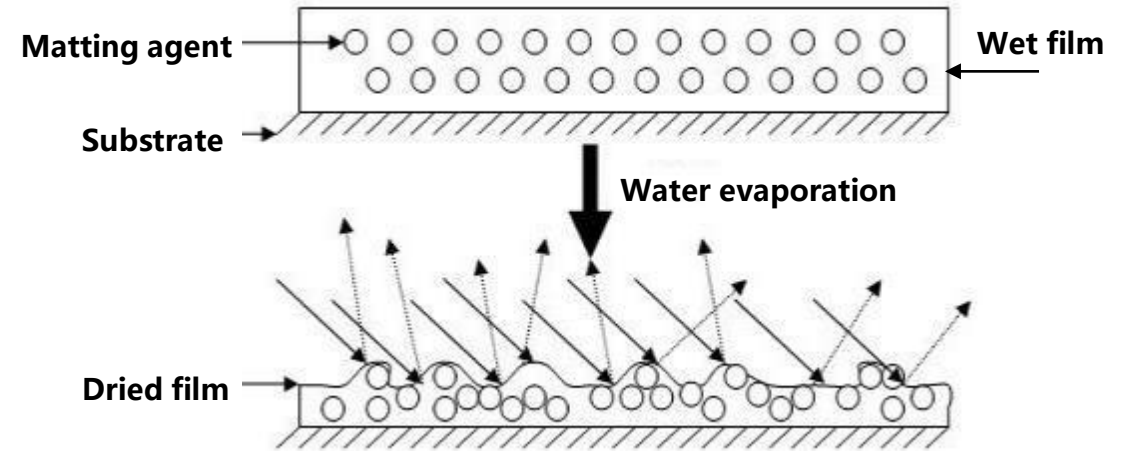
| | Tensile strength | Elongation | 100% Elongation modulus |
|--------------|------------------|------------|-------------------------|
| Leasys® 5531 | 60 MPa | 400% | 12% |
| Leasys® 3900 | 35MPa | 300% | 16% |



Unique Selling Points:

- An acrylic polymer (3 %OH) which delivers the right balance between hardness build-up and abrasion resistance
- Low odor and low VOC
- Easy to matt
- Excellent yellowing resistance

Most effective use: 2K PUR Topcoat & Varnish



Antkote 2033

Archsol 8576



Unique Selling Points:

- The emulsion has very high –OH content, It can give the coating excellent scratch resistance and mar resistance when crosslinking with hardeners.
- High gloss, gloss (60°) > 92%.
- Good weather resistance.
- High hardness, 2H.
- Excellent chemical resistance for high grade flooring coating

Most effective use: 2K PUR Topcoat & Varnish



| | Drying Speed | Gloss | Alkali Resistance | Chemical Resistance | Durability | Hardness | Taber Resistance | Dirt Pick-up Resistance |
|---------------|--------------|-------|-------------------|---------------------|------------|----------|------------------|-------------------------|
| Archsol® 8090 | +++ | + | 0 | 0 | 0 | B | 0 | ++ |
| Archsol® 8210 | +++ | 0 | ++ | 0 | - | B | 0 | 0 |
| Leasys® 5531 | ++ | + | 0 | + | ++ | B-HB | + | + |
| Leasys® 3900 | ++ | + | 0 | + | ++ | B-HB | + | + |
| Archsol® 8576 | ++ | - | ++ | ++ | ++ | HB | ++ | ++ |
| Antkote® 2702 | + | ++ | ++ | ++ | - | 2H | + | ++ |
| Antkote® 2042 | 0 | +++ | ++ | +++ | +++ | H | ++ | ++ |



Hydrophilic



Aquolin® 270

- Sulfoacid Modified
- Better Water Dispersibility

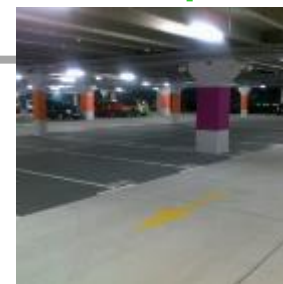


Aquolin® 269

- Sulfoacid Modified
- Best Hand-Mixing
- Excellent Water Resistance

Aquolin® 278

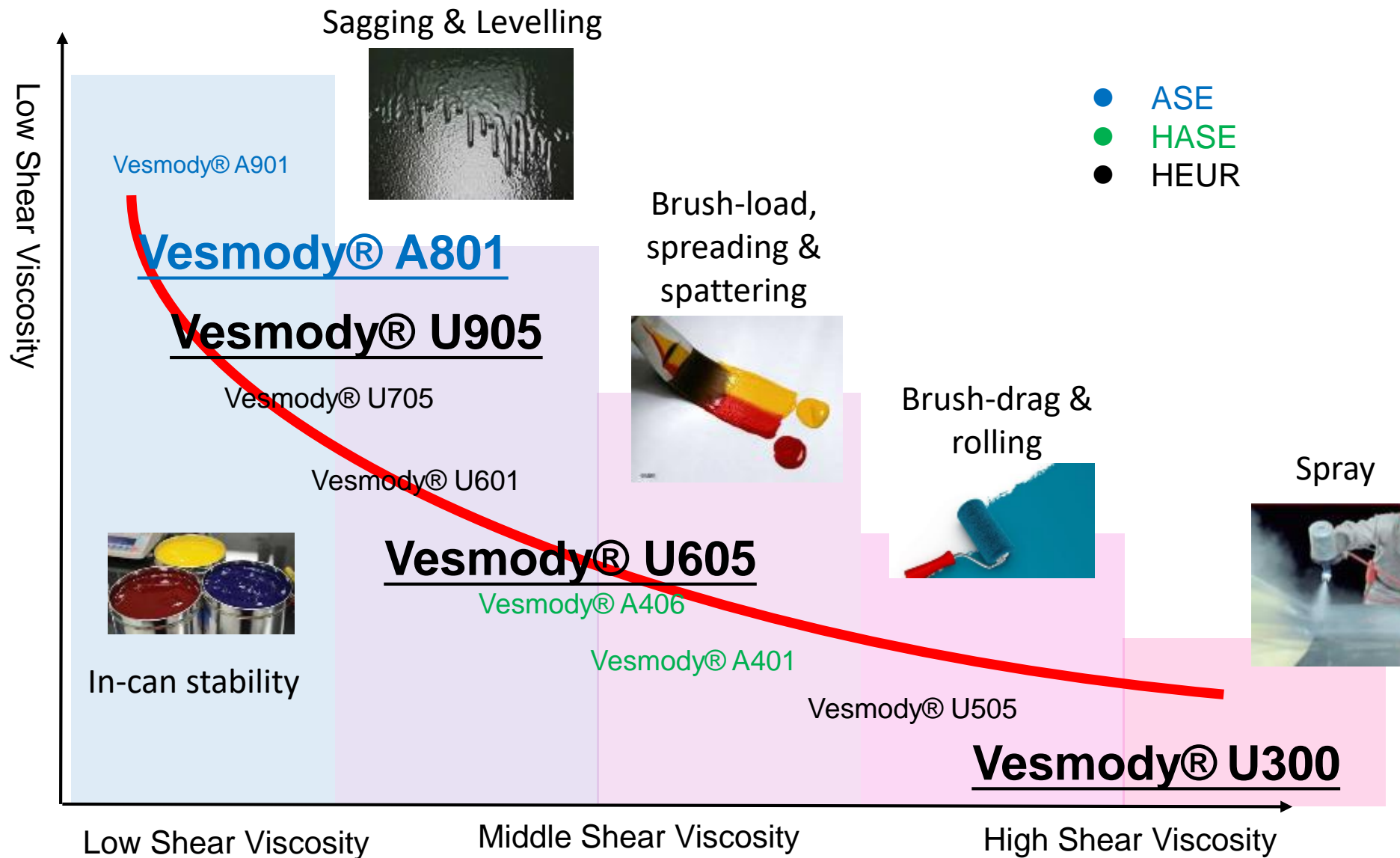
- Sulfoacid Modified
- Matting



Hand-Mixing



| Products | Type | Solids (%) | OH (%) | pH | MFFT (°C) | Features | Applications |
|---------------|------------------|------------|--------|-------------------|-----------|---|--|
| Antkote® 2042 | OH-PA dispersion | 46 | 4.2 | 7.0-9.0 | | High hardness, excellent chemical resistance and durability | pigment coating/ high gloss topcoat |
| Antkote® 2702 | OH-PA dispersion | 45 | 3.9 | 7.0-9.0 | | High hardness & fast dry | Primer/Topcoat |
| Archsol® 8576 | OH-PA emulsion | 48 | 3.0 | 3.5-5.5 | 5 | Good film formation, high crosslinking density, easy to matt | Matt topcoat |
| Archsol® 8210 | PA | 30 | | 7.0-9.0 | 0 | Strong permeability, excellent salting resistance and alkali resistance | Primer/Sealer |
| Archsol® 8090 | PA | 41.5 | | 7.0-9.0 | >60 | Very good dirt pick-up resistance | Primer/Topcoat |
| Leasys® 5531 | PUD | 35 | | 7.0-9.0 | < 5 | Small particle size, good solvent stability and good film formation, chemical & wear resistance | Topcoat |
| Leasys® 3900 | PUD | 38 | | 7.0-9.0 | < 5 | Small particle size, hard, high abrasion resistance and good flexibility | Topcoat |
| Products | Type | NCO (%) | | Viscosity (mPa.s) | | Features | |
| Aquolin® 270 | WB Hardener | 21-22 | | 1500-3500 | | High gloss, easy dispersible | |
| Aquolin® 269 | | 21-22 | | 500-2000 | | High gloss. Easy dispersible, & water resistant | |
| Aquolin® 278 | | 22-23 | | 1500-3500 | | Easy to matt, hand mixing | |





创新成就卓越 INNOVATION CREATES EXCELLENCE

