

# DHT-300H(A,B)

Second Generation Acryl Adhesive

**DAEHEUNG CHEMICAL**

DHT-300H(A,B) is two component modified acrylic monomer base adhesive, which is the quickly curing type, good workability and bonding strength for the various materials.

## 1. Uses

- Parts of an electronic, parts of a motors, etc. (Metal, ABS, FRP, various soft and hard type plastics.)
- The use of common industry. (Glass, rubber, ceramic, stone, wood, etc.)

## 2. Characteristics

- Quickly curing type.(Curing time 5~10min)
- Adhesion is good to various materials. (Metal, acrylic, ABS, FRP, etc.)
- Superb resistance to impact, heat, water, chemical and weather.
- Good workability.

## 3. Physical properties

Properties	DHT-300H(A) (Resin)	DHT-300H(B) (Hardener)	Reference
Main component	Modified acrylate		
Color	Blue viscous liquid	Pink viscous liquid	
Solid contents	98±1 %		at 105±5℃ × 3hr
Viscosity	25,000~35,000 cps		at 25℃, BF#5, 10rpm
Specific gravity	1.0±0.1 g/cm <sup>3</sup>		at 20℃
Mixing ratio	A:B=1:1		By weight
Pot life	Within 15 min		at 20℃
Temperature resistance	-40℃ ~ 150℃		at 20℃
Shelf life	3months in unbroken package under dry and cool condition		

## 4. How to use

- Two component mixing and non mixing method.

### - Mixing method

After two components mixing (mixing ratio 1:1) immediately coat it with each surface, and then press them.

**- Non mixing method**

Coat component A with one material surface and coat component B with another material surface, and then press them. (Unlimited curing time.)

**- Auto applicator method**

You can continual coat mixed material or non mixed material by auto applicator.

- Application amount: 200~500g/m<sup>2</sup>

**5. Adhesion property**

- Adhesion strength

Adhesion property	Test value	Reference
Shear strength (kg/cm <sup>2</sup> )	255	
Peel strength (kg/25mm)	10	
Impact strength (kgf cm/cm <sup>2</sup> )	32	
Heat resistance strength(kg/cm <sup>2</sup> )	60	at 130℃

- Adhesion strength(As curing time)

Item \ time	10min	24hour	96hour	Reference
Shear strength (kg/cm <sup>2</sup> )	155	240	255	
Impact strength (kgf cm/cm <sup>2</sup> )	12	29	32	

- Adhesion strength(As heat resistance)

Item \ condition	Shear strength (kg/cm <sup>2</sup> )	Impact strength (kgf cm/cm <sup>2</sup> )	Reference
Heat aging	205	25	
Cold resistance	241	-	
Heat resistance	58	31	

- Adhesion strength(As chemical resistance)

Item \ condition	H <sub>2</sub> O	10% HCl	10% NaOH	Toluene	Acetone	Reference
Shear strength (kg/cm <sup>2</sup> )	190	120	115	195	160	
Impact strength (kgf cm/cm <sup>2</sup> )	18	13	13	23	18	

## 6. Caution

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- Avoid direct rays of the sun and keep in cool and dry place.
- Keep it away from the fire.
- Close the cap tightly after using it.
- Ventilation the room well because of containing solvent.
- Don't use except for the original purpose.

## 7. Packaging

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- DHT-300H(A): 2.8kg PE C/N
- DHT-300H(B): 2.8kg PE C/N

Please contact us for further information or see Material Safety Data Sheet (MSDS) for this product.

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