

Desmophen[®] A 870 BA

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| Type | Hydroxyl-bearing polyacrylate |
| Form supplied | approx. 70 % in butyl acetate |
| Uses | Co-reactant mainly for Desmodur [®] N to formulate two-component polyurethane coatings with good light stability, chalking resistance and gloss retention; particularly suitable for automotive coatings. |

| Specification Property | Value | Unit of measurement | Method |
|---|-------------|---------------------|---------------------|
| Hazen color value | ≤ 50 | | DIN EN 1557 |
| Acid value | 7.5 ± 1.5 | mg KOH/g | DIN EN ISO 2114 |
| Viscosity at 23 °C | 3500 ± 700 | mPa·s | DIN EN ISO 3219/A.3 |
| Non-volatile content (1 g resin/ 1 h 125 °C, convection oven) | 70 ± 1 | % | DIN EN ISO 3251 |
| Hydroxyl content | 2.95 ± 0.15 | % | DIN 53 240/2 |
| Water content | ≤ 0.1 | % | DIN 51 777/1 |

| Other data* Property | Value | Unit of measurement | Method |
|-------------------------|--------------|---------------------|-------------------|
| Equivalent weight | approx. 575 | | |
| Density at 20 °C | approx. 1.03 | g/ml | DIN EN ISO 2811-2 |
| Flash point | approx. 25 | °C | DIN EN ISO 1523 |

*These values provide general information and are not part of the product specification.

Desmophen[®] A 870 BA

Solubility / thinnability

Desmophen A 870 BA can be thinned to a solids content of 30 % with ketones, esters, ether esters, toluene, xylene and solvent naphtha[®] 100. The storage stability of the respective solutions must be tested.

Only PU grade solvents (< 0.05 % water, free of other reactive impurities) should be used. The product is not compatible with aliphatic hydrocarbons.

Compatibility

In general, Desmophen A 870 BA can be mixed with the following Desmodur- and Desmophen-types; individual cases must be tested for their suitability.

Desmodur N 75, N 3390, N 3400, N 3600, Z 4470, L as well as Desmophen A 365, A 450, A 565, A 665, 670, 680, RD 181.

It is generally miscible with most CAB grades.

Nevertheless, the compatibility of the combinations must always be tested.

Properties / Applications

Mainly in combination with Desmodur N 75, N 3390 and N 3600 for air- and forced-drying automotive refinish and industrial coatings.

The cured paint films are hard, tough but flexible, glossy and high-bodied with excellent weather stability and lightfastness and good resistance to solvents and petrol.

Storage

The product will be stable for at least 6 months when properly stored in original containers.

Safety

Hazards identification

Flammable. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness.

The safety data sheet should be observed. This contains information on labeling, transport and storage as well as on handling, product safety and ecology.

This Information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery. This does not apply to Trial-Products.

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