

TECHNICAL DATASHEET

DEMPOL SA 190 (53%)

PURE ACRYLIC BINDER FOR PAINT, PLASTERS AND IMPROVING CEMENT MORTARS AND SLURRIES

DEMPOL SA 190 (%53)
IS AN AQUEOUS, PLASTICIZER FREE, FINE DISPERSION
OF AN ACRYLIC/ACRYLIC ESTER COPOLYMER EMULSION.

EMULSION PROPERTIES

Type of Polymer	: Acrylic/Acrylic Acid Ester Copolymer
Solid Content (%)	: 53-54
pH (at 25°C)	: 6.5 - 8.3
Average Particle Size (µm) approx.	: 0.23
Viscosity (Brookfield DV-II +) (at 25 °C)	: < 500 mPa.S (spindle:2/20 rpm)
Stabilizing System	: Anionic-Nonionic
Free Monomer Content (%)	: < 0.3
Density (at 20°C)	: 1.04 - 1.07 (gr/ml)
Minimum Film Forming Temperature (°C)	: +14 / +15
Film Appearance (at 25°C)	: Clear, very flexible
Glass Transition Temperature (°C)	: +14

APPLICATION

- High quality Interior & Exterior Paints
- Improving Cement Mortars and Slurries.

DEMPOL SA190 (%53) is strongly recommended for the production of acrylic indoor/outdoor emulsion paint and plaster. It is also successfully used as an additive for improving cement mortars and slurries due to its non-attractiveness against water.

FEATURES

- Good water resistance and scrub resistance
- Good paint stability
- Clear , glossy and flexible film.
- High pigment binding capacity

PROCESSING

DEMPOL SA 190(%53) exhibits very good compatibility with pigments and fillers and has a high pigment binding capacity.

Paints are produced in the conventional method in a high-speed impeller mill. It's recommended that the pigments and extenders are thoroughly dispersed by wetting agents (e.g. DEMPOL 0930) and dispersing agents (e.g. DEMPOL PA 40 NS) before the emulsion is added.

DEMPOL SA 190 (%53) has a tendency to foam as all small particle dispersions. It is essential to add defoamer during the process of producing emulsion paints and similar applications.

To arrange the viscosity and processing properties of emulsion paints, plasters etc. various types of thickeners can be added. Like cellulose ethers, acrylic thickeners(e.g. AGAPOL SA 65) and polyurethane thickeners.

DEMPOL SA 190 (%53) exhibits good film formation at temperatures above 14°C. It is necessary to add suitable coalescing agents (e.g. Texanol or Buthyl Diglycol Acetate) in amounts of 0.7 – 1.7 % in terms of the whole formulation.

Glycols improve the freeze-thaw stability and glossy of the finished products but do not cause any reduction of the film forming temperature.

Eventhough DEMPOL SA 190 (%53) is protected from microorganisms. It is required to add antibacterial agents to the finished products to ensure good storage stability.

SAFETY

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| PERSONAL PROTECTION | : Wear suitable protective clothing , gloves and glasses for eye / face protection. |
| SKIN CONTACT | : Wash skin as soon as possible with plenty of water. |
| EYE CONTACT | : Flush immediately with plenty of water , keeping eyelids open , for at least 15 minutes. Remove contact lenses. Seek for medical assistance. |

HANDLING & STORAGE

HANDLING

: Ventilate the working place thoroughly. Avoid contact with skin, eyes and clothes. No eating and drinking in the work place.

STORAGE

: Stable for 12 months , in close drums at ambient temperature (+5 / +40°C) avoid freezing temperatures and sources of heat and direct sunlight.

NOTE

The above information is based on our knowledge and experience. In view of many factors that may affect processing and application, these data do not relieve end-users from the responsibility of carrying out their own tests and experiments.

DEMPOL CHEMICAL CO.LTD

Organize Sanayi Bölgesi
ADANA/TURKEY

Tel :00 90 535 849 89 06
Fax : 00 90 322 261 68 86
Skype : mehmetdemirel01
E-mail : mdemirel01@gmail.com