

TECHNICAL DATASHEET

DEMPOL SA 190 N (53%)

TERPOLYMER EMULSION FOR PIPE COATING

DEMPOL SA 190 N (53%) IS A WATER-BASED, ACRYLIC/ACRYLIC ACID ESTER TERPOLYMER EMULSION, HAVING 53% SOLID CONTENT.

EMULSION PROPERTIES

Type of Polymer	: Acrylic/Acrylic Acid Ester Copolymer
Solid Content (%)	: 53-54
pH (at 25°C)	: 8 - 8.8
Average Particle Size (µm) approx.	: 0.23
Viscosity (Brookfield DV-II +) (at 25 °C)	: < 500- 2000 mPa.S (spindle: 6/10 rpm)
Stabilizing System	: Anionic-Nonionic
Free Monomer Content (%)	: < 0.3
Density (at 20°C)	: 1.05 - 1.08 (gr/ml)
Minimum Film Forming Temperature (°C)	: 8 - 15
Film Appearance (at 25°C)	: Clear, very flexible
Glass Transition Temperature (°C)	: +14
Resistance to Saponification : 45 ml (DIN 2614) 0.1 M HCL consumption	

APPLICATION

It is especially modified for cement mortar innerlinings of spiral pipes as well as fittings. It permits a reduction in the water content and gives the hardened mortar excellent adhesion to concrete and steel. It increases density and reduces tendency to shrinkage. Additionally, it improves tensile and compressive strength and elasticity. It exhibits a well known resistance against water when film is formed, hence it is recommended to use as an additive for improving cement mortars and slurries.

DEMPOL SA 190 N (53%) is successfully used for spiral shaped pipe coating of fresh water supply. The inner surface to be coated must be clean, free from oil remnants and loose particles. Deeply contaminated areas must be mechanically removed. In many cases, sand blasting is recommended. Prior to coating, the surface should be dry enough to be absorbent again.

A water film will reduce adhesion to the surface. The cured coatings produced with DEMPOL SA 190 N (53%) in contact with drinking water, food, etc. are physiologically and bacteriologically absolutely harmless.

The mortar is to be prepared within a proper mixture ratio by mixing quartz sand, portland cement and water. This mortar is then forwarded into surface of pipe by spraying technique. When coating is completed, pipe is then cured.

- * Surface layer temperature must be a minimum of 15 ° C
- * When the material contact with the water , it doesn't given off toxic material to water.
- * Received Certificates of Analysis : Report Reference: M 104256

In England , The Water Quality Centre Laboratory confirmation report.(BS 6920 : 2000)

DEMPOL SA 190 N(53%) application Area;- Potable water pipe,- Wastewater pipe
Here is a recommended formulation for pipe coating:

QUARTZ SAND(AFS 30-35).....	53 - 55 - 50 %
CEMENT(CEM 2 PÇ 42.5 R).....	32 - 32 - 35.5 %
AGAPOL SA 90 N(53%).....	12 - 9 - 10.5 %
WATER.....	3 - 4 - 4 %

TOTAL 100 %

SAFETY

- 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