TECHNICAL BULLETIN
PolyGone® 305
INDUSTRIAL GRADE POLYSULFIDE EMULSIFIER

DESCRIPTION: PolyGone 305 is a high performance Industrial Grade sealant emulsifier designed to remove polysulfide and other sealants from a variety of surfaces.

CHEMISTRY: PolyGone 305 is a proprietary formulation designed to penetrate, break down, and emulsify tenacious sealants. Once broken down, the sealant is suspended to prevent redeposition and enable easy rinsing.

APPLICATION: PolyGone 305 is intended for use at room temperature (68°F-80°F). It may be continuously sprayed or used in immersion-based cleaning systems. Heat (120ºF/49ºC) and/or gentle agitation, including ultrasonic, is not necessary but significantly enhances performance. The agitation removes the digested sealant and exposes underlying layers to fresh PolyGone 305. However, do not use a sparging system, as this will quickly deactivate the emulsifier. PolyGone 305 must be used at full strength. Dilution and/or excessive heat, above 120ºF will deteriorate the emulsifier. RPM Technology recommends using PolyGone 305 in a well-ventilated area and in a covered cleaning apparatus to prevent product evaporation.

RINSE: PolyGone 305 is water-soluble. Although water may be used to rinse the product, rinsing with a low surfactanated emulsifier such as eOx®, also available from RPM Technology, followed by pure water will improve removal of all residues. An emulsifier will improve rinsing via a "sheeting" effect, reduce sealant redeposition, and reduce water usage. In cases where water is not preferred, a compatible solvent such as IPA or acetone may be used.

COMPATIBILITY: PolyGone 305 is metal-friendly. The formulation is non-ionic and non-reactive. Metals such as Cu, Fe, Al, Zn, and Ti have been tested with PolyGone 305 with no detected metal loss. However, PolyGone 305 attacks many types of polymers and plastics. Polyvinyl chloride (PVC), polyvinyl alcohol, and similar plastics should not be treated with PolyGone 305. Many elastomers are also not recommended. RPM Technology recommends the following plastics for application and storage, Polypropylene, Poly Olefin, Polyethylene (low and high density), Teflon, and Butyl Rubber. Testing is necessary to demonstrate full compatibility.

PPE: Recommend personal protective equipment (PPE) includes safety glasses/goggles and nitrile or butyl rubber gloves. Aprons may be used to protect clothing. *Do not* use gloves made from latex or vinyl.

TOXICITY: PolyGone 305 contains a blend of polar organics. PolyGone 305 has a low inherent toxicity and at diluted levels, is essentially non-toxic to aquatic life. The material is readily biodegradable and does not bioaccumulate.

STORAGE: PolyGone 305 must be stored in a cool and dry environment away from light and incompatible materials. The recommended storage temperature is between 50ºF-80ºF (10ºC-27ºC). Under these conditions, unopened containers of PolyGone 305 have a 1-year shelf life.

DISPOSAL: PolyGone contains no halogenated, reactive, or other EPA regulated components. Conformance with Federal, State, and Local disposal regulations is required. Diluted PolyGone can be disposed of by discharge to a sewage treatment plant with prior approval. Used PolyGone may need to be disposed of as organic solvent waste depending on the sealants and contaminates removed. PolyGone has a high BTU value and waste can be managed through a fuels-blending program.

AVAILABILITY: PolyGone 305 is available in individual poly gallons, 4x1 gallon cases, and 55-gallon steel drums.