

MasterSeal® NP 150

Very low-modulus, fast-curing, nonsag, elastomeric, silyl-terminated polyether sealant

FORMERLY SONNEBORN® SONOLASTIC® 150 WITH VLM TECHNOLOGY

MasterSeal NP 150 is a premium, very low-modulus, high movement, nonsag, fast-curing, ready to use, silyl-terminated polyether sealant. It accommodates extreme joint movement to keep joints weather tight.

COATING/PAINTING

MasterSeal NP 150 can be coated over after a thin film or skin forms on the surface. A joint installed 1/2" (13mm) in width by 1/4" (6mm) in depth would typically skin within an hour @ 75° F (24° C), 50% RH. Because of environmental changes at a jobsite, the exact time will be a judgment call based on the experience of the installer. For example, in order for a proper skin to develop prior to applying a wall coating depends on the temperatures and the percent of relative humidity (%RH). In lower temperatures and/or higher %RH it would take a longer time period for this skin to develop.

INFLUENCE OF COATING THICKNESS AND COVERAGE RATE

In the industry it is generally accepted that "paints" are considered at being installed at less than <6 mils DFT and "coatings" are considered greater than >6 mils. Film thickness is critical to a successful coating application over 150.

High build wall coatings like an elastomeric are typically applied at an average of 16 – 20 (WFT) wet film thickness (80 – 100 sq.ft per gallon) to achieve 8 – 10 dry mils per coat depending on the volume solids of the coating. When the coating is applied at a higher coverage rate for a thin application such as 3 – 6 mils DFT, similar to what would occur with a "paint", a slight separation of the paint/coating could occur over the sealant like the attached photo.

Proper thickness will help reduce the possibility of coating separation. If the wall coating application is not able to be performed the same day as the sealant application, it would be recommended that a solvent wipe of the sealant is conducted as outlined below; this will help to reduce thin build coating/paint separation. If coating/paint separation has occurred and dried, a second coat can be applied to the sealant. The separation typically does not reappear after the second coat.



INFLUENCE OF TEMPERATURE AND HUMIDITY.

This separation can also be seen if the coating was applied too soon over the NP 150. This will occur when applied at lower temperatures and/or higher % RH and was not allowed to achieve a proper skin. Be aware that water-based rigid coatings/paints have the potential to haze crack over the sealant when applied in much cooler temperatures.

INFLUENCE OF SOME SOLVENT COATINGS

Some solvent coatings and paints have been found to take a longer period up to 7 – 14 days to properly dry over a variety of cured single component joint sealant technologies. It is recommended to test for compatibility and application methods to achieve the desired adhesion and appearance. The use of solvent coatings raises the importance of field testing as not all applications are guaranteed successful even when using our own coatings. We did conduct internal side by side application testing of our sealants with solvent based coatings. Our MasterSeal NP 1 was found to perform the best with some solvent paints/coatings/primers in regards to dry times and adhesion @ 7 days.

GUIDELINE TO HELP ACHIEVE SUCCESS WHEN PAINTING OVER SEALANTS

If excessive time has elapsed after sealant application, care must be taken that the sealant is not contaminated with dust, etc. when painting. Cleaning of the sealant is accomplished with a solvent wipe¹, power washing (no more than 1000 psi), or a combination of methods. Determine a cleaning method based on the environment to which the sealant has been exposed and the type and amount of contaminant present. The desired effect is a removal of the contamination while achieving a slight tack of the sealant to make it accepting of the subsequent coating.

The use of a rigid coating, such as an epoxy, is not recommended over an elastomeric sealant. A flexible acrylic coating or an elastomeric coating like Colorflex will give best performance on MasterSeal elastomeric sealants².

In summary, a successful coating application over a sealant is dependant on:

1. Field Test
2. Experience of the installer
3. Proper preparation
4. Proper timing with environmental conditions
5. Coating or paint thickness

1—Recommended solvents include MasterSeal 990 or Xylene. Always use proper precautions when handling solvents. Refer to solvent MSDS when applicable.

2—Since coatings are not designed to expand and contract to the extent that sealants do, all rigid coatings will crack and even elastomeric coatings may crack when exposed to excessive joint movement.

HEALTH , SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting www.master-builders-solutions.basf.us, e-mailing your request to basfbcst@basf.com or calling 1(800) 433-9517. Use only as directed. For medical emergencies only, call ChemTrec® 1(800)424-9300.

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