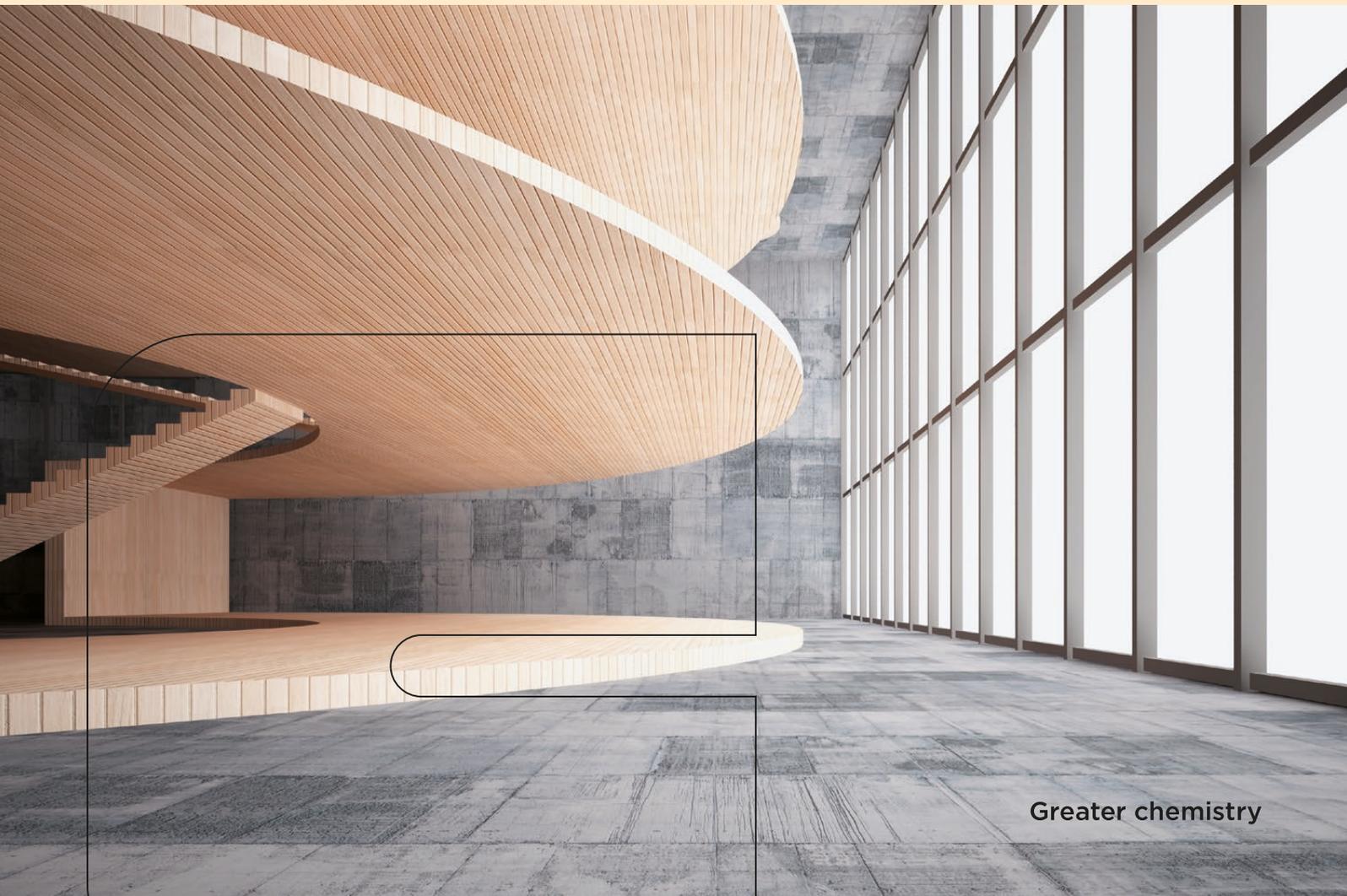


GLASS TO METAL, CONCRETE TO WOOD

AddWorks[®] IBC 760

Boosting the performance of SMP sealants



AddWorks® IBC 760

Boosting the performance of SMP sealants

The increasing focus on sustainability and the need to improve the labeling profile is challenging the silyl modified polymers (SMP) sealants industry to develop new solutions for filled and clear systems.

Clariant and Omya, a leading global producer of industrial minerals and a worldwide distributor of specialty chemicals, have joined their technical expertise to bring an innovative light and heat stabilizer package to the SMP sealant market.

AddWorks IBC 760 has been formulated to deliver outstanding UV and heat resistance. Available in powder form, it prolongs the service life of SMP sealants benefitting from minimal surface cracking and outperforming current benzotriazole solutions which have a tendency to yellow. The performance is evident when tested against current solutions in the market.

KEY PRODUCT FEATURES AT A GLANCE



NO HAZARDS LABELING



OUTSTANDING LIGHT & HEAT STABILITY



LOW YELLOWNESS INDEX



IN-CARTRIDGE COLOR STABILITY

PERFORMANCE DATA*

	INDUSTRY STANDARD (UVA 326 + HALS 770)	NEXT BEST ALTERNATIVE (BLEND 5866)	ADDWORKS® IBC 760
Hazards classification labeling	Yes	Yes	No
Reference Samples Yellowness Index 0 Hour (unexposed)	 8.71	 6.37	 6.14
2000 Hours WOM Exposure			
Heat Stability ¹ Hours	1800	1776	2976
Surface Cracking ² Hours	1500	1000	2500
DE (color change) ² After 1000 Hours	1.09	1.24	0.59
Tensile Strength ³ @Break N/mm ²	3.79	3.63	3.77
Elongation ³ @Break %	422	404	429

¹ Heat stability tested at 110 °C (time when sample fails)

² Weathering conditions: according to ISO 4892-2 wet/dry

³ Tensile strength and elongation according to ISO 37

* Performance data generated from the original DOE in 2019

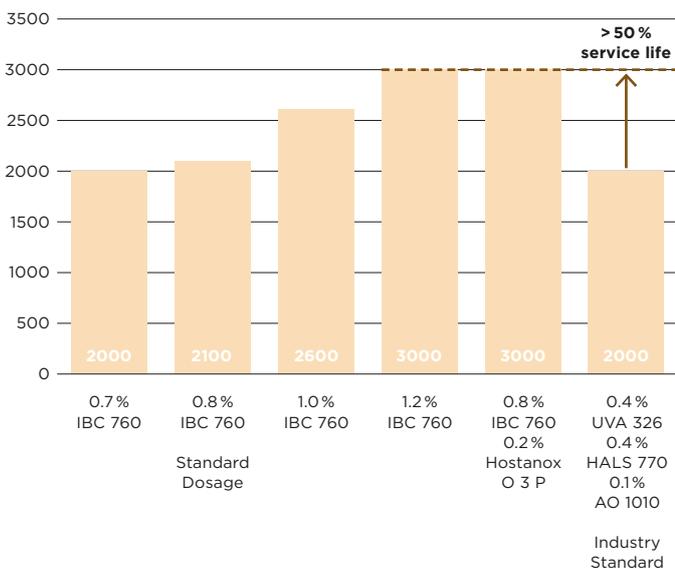


HIGH MODULUS 1K-SMP GUIDE FORMULATION

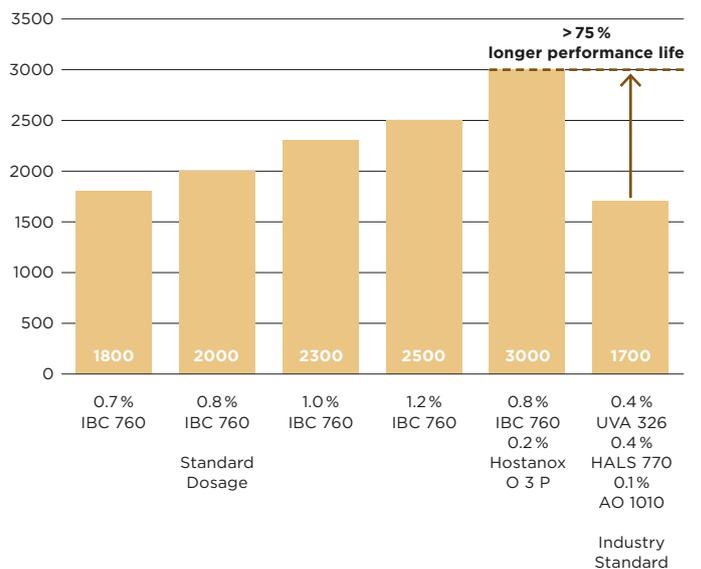
SMP prepolymer	29.2%
Plasticizer	14.6%
Hakuenka® CCR-S10 ultrafine precipitated calcium carbonate	52.0%
AddWorks® IBC 760	0.8%
Adhesion promoter	0.9%
Moisture scavenger	2.0%
Tin catalyst	0.5%
TOTAL	100.0%

FURTHER ENHANCING THE WEATHERING AND HEAT STABILITY PERFORMANCE WITH A COMBINATION OF ADDWORKS® IBC 760 AND HOSTANOX® O 3 P

ACCELERATED WEATHERING TEST (WOM) IN HOURS



HEAT STABILITY TEST IN HOURS



- AddWorks IBC 760 matches the industry standard performance at 0.7% dosage vs. 0.9%, setting a **new benchmark**
- Increasing the dosage level of AddWorks IBC 760 to 1.2% **surpasses** the industry standard performance by 50%, reaching 3000 hours
- A more **cost-effective** way to reach 3000 hours performance is to dose 0.8% AddWorks IBC 760 with 0.2% of Hostanox O 3 P

- AddWorks IBC 760 **surpasses** the industry standard performance at 0.7% dosage vs. 0.9%, setting a **new benchmark**
- Increasing the dosage level of AddWorks IBC 760 to 1.2% **outperforms** the industry standard performance by 40%, reaching 2500 hours
- 0.8% AddWorks IBC 760 with 0.2% of Hostanox O 3 P **extends the performance** even further, while lowering the formulation costs

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