

BULK BAG SHELF LIFE EXTENSION

DRY MONOLITHIC REFRACTORY SHELF LIFE

HarbisonWalker International reinvented the way to produce and deliver quality monolithic products when we became the first U.S. refractory manufacturer to deliver monolithics in form, fill, and seal technology (FFS). This advanced packaging technology was new to the North American refractory market, and offers improved product consistency, shelf life, and storage, as well as easier and safer handling.

FFS has proven to slow the material aging on product in 55 lb. bags, while delivering more predictable performance than ever before. Since the successful extension of shelf life on these products, HWI has been investigating bulk bag packaging shelf life.



We are pleased to announce that after rigorous testing, including real-time product aging studies, HWI updated the shelf life of many brands produced in bulk bags.



LISTED IS THE SHELF LIFE IN PAPER BAGS (DAYS), THE SHELF LIFE IN BULK BAGS (DAYS) AND THE NEW SHELF LIFE IN FFS BAGS (days).

BRAND NAME	SHELF LIFE - PAPER BAGS	SHELF LIFE - BULK BAGS	SHELF LIFE - FFS BAGS
ARMORKAST 80AL ADTECH	180	270	365
AMORKAST 80AL C ADTECH	180	270	365
ARMORTECH 65AL	180	270	365
ARMORTECH 65AL C	180	270	365
ARMORTECH 65AL ON-LINE	180	270	365
ARMORTECH 65AL SHOT-TECH	180	270	365
ARMORTECH MW 65AL	180	270	365
CASTABLE MIX 1005 X	120	180	270
CRYLA DC BATCH	120	270	270
D-CAST 85 GOLD CASTABLE	120	180	270
D-CAST 85 GOLD SIC4	120	180	270
D-CAST 85TMCC CASTABLE	90	120	270
D-CAST TRC-OR CC	90	150	150
D-CAST TRC-OR PLUS	90	150	150
D-CAST XZR-OR	90	150	150
D-CAST XZR-OR CC	90	150	150
EXCELERATE ABR PLUS	90	N/A	270
EXPRESS ARMORKAST 65 AL	120	270	270
EXPRESS ARMORKAST 80 AL MAX	120	270	270
EXPRESS-27 PLUS	120	270	270
EXPRESS-30 PLUS	180	270	270
EXPRESS-30 QS	180	270	270
EXPRESS-60 Z ADTECH	120	270	270
FASTDRY 8 CASTABLE	90	270	270
FASTDRY 8 SP CASTABLE	90	270	270
FASKAST 75 PLUS	180	365	365
FASKAST 80	180	365	365
GREENKLEEN-60 PLUS	180	365	365
GREFCON 85	120	270	270
KALAKAST AR ADTECH	270	270	365
LO-ABRADE HPI PLUS	120	270	365
NARCON 65 CASTABLE	180	365	365
NARCON 70 CASTABLE	180	365	365
NARCON AZS CASTABLE	180	365	365
NARCON MZA CASTABLE	180	365	365
ON-LINE 57A	120	180	365
ON-LINE 60	120	180	365
ON-LINE THOR AZS	120	180	365
SHOTKAST 65	180	270	365
SHOTKAST HMC	90	270	365
SHOTKAST TRW	90	270	365
SHOT-TECH 45 LI	180	270	365
SHOT-TECH 55 AR	180	270	365

BRAND NAME	SHELF LIFE - PAPER BAGS	SHELF LIFE - BULK BAGS	SHELF LIFE - FFS BAGS
SHOT-TECH 57A	120	270	365
SHOT-TECH 60	180	270	365
SHOT-TECH 60Z	180	270	365
SHOT-TECH 70	180	270	365
SHOT-TECH 80	180	270	365
THOR 30 ADTECH	180	270	365
THOR 60 ABR ADTECH	90	270	365
THOR 60 ADTECH	180	270	365
THOR AZS CASTABLE	180	270	365
THOR AZSP PLUS	180	270	365
THOR AZS-PT PLUS	180	270	365
ULTRA-EXPRESS 45	120	180	240
ULTRA-EXPRESS 70	120	180	240
ULTRA-EXPRESS 70 AL	120	180	240
ULTRA-GREEN 57A	120	180	270
ULTRA-GREEN 60 PLUS	120	180	270
ULTRA-GREEN 80	120	180	270
ULTRA-GREEN SR	180	180	270
VERSAFLOW 45 C PLUS	270	270	365
VERSAFLOW 45 PLUS	270	270	365
VERSAFLOW 45/AL ADTECH	270	270	365
VERSAFLOW 55/AR ADTECH	270	270	365
VERSAFLOW 55/AR C PLUS	270	270	365
VERSAFLOW 57A PLUS	120	270	365
VERSAFLOW 60 PLUS	270	270	365
VERSAFLOW 65/AD C ADTECH	270	270	365
VERSAFLOW 65/AL C ADTECH	270	270	365
VERSAFLOW 65/AL PLUS	270	270	365
VERSAFLOW 70 C PLUS	180	270	365
VERSAFLOW 70 PLUS	180	270	365
VERSAFLOW 70/CU ADTECH	270	270	365
VERSAFLOW 70AL SC PLUS	270	270	365
VERSAFLOW 70 QS PLUS	120	270	365
VERSAFLOW 75 C PLUS	270	270	365
VERSAFLOW 80 C PLUS	270	270	365
VERSA-TECH 55 AR HS PLUS	270	270	365
VERSA-TECH 55G AR ON-LINE	180	N/A	365
VERSA-TECH 57A G ON-LINE	180	N/A	365
VERSA-TECH 60G ON-LINE	180	N/A	365
VERSA-TECH MW 55 AR PLUS	120	270	365
VERSA-TECH THOR AZS G ON-LINE	180	N/A	365
ZIRMULCAST	120	180	270

LISTED IS THE SHELF LIFE IN PAPER BAGS [DAYS], THE SHELF LIFE IN BULK BAGS [DAYS] AND THE NEW SHELF LIFE IN FFS BAGS [days].

BULK BAG SHELF LIFE EXTENSION

Technical Datasheets have been updated to differentiate packaging types and reflect extensions in Bulk Bag shelf life.

HarbisonWalker International continues to evaluate options to provide the benefits of extended shelf life across all our products.

For any questions on this, or any other product development, reach out to your local sales representative, or our product management group.



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