



# Adding Durability to Your Card Program

Best Practice Guide



**ENTRUST**

SECURING A WORLD IN MOTION

## Protecting cards against life's harsh realities

Consumers handle their cards in many different ways. Some carry them in their wallet and use them every day. Others may stick them in a pocket or leave them laying loose in a bag or purse. Still others like to put their cards to the test and use them for unintended purposes, such as scraping a window. In any case, these various uses have different impacts on the lifespan of a card, and the more durability you can add to the card, the lower the replacement costs will be. This is especially important with costly EMV smart cards that are used to create more secure card portfolios. Card durability and longevity become vitally important in reducing overall program costs.

Usage is just one factor that impacts card durability. The following factors all contribute to card lifespan:

### Usage and Construction:



**Card Substrate**  
The card's construction



**Personalization Technology**  
Supplies and hardware used, machine settings



**Storage**  
Wallet, purse, pouch, dashboard, etc.

### Environmental Factors:



**Chemical Resistance**  
Image degradation, embrittlement



**Adhesion**  
Overlay and card delamination, image degradation and removal



**Abrasion Resistance**  
Overlay and personalization removal, image degradation



**Moisture Resistance**  
Card delamination, bubbling, image degradation



**UV Resistance**  
Card and image fading, card embrittlement

### LOW - Card Functionality/Exposure

-  Rarely used in transactions such as a mag stripe or smart card reader. Infrequent handling, exposure to sunlight or finger oils.
-  Rarely carried on a person on a daily basis. Often stored in an additional storage product (such as a Tyvek card pouch).
-  Documents that have low exposure are typically only used a few times per year.
-  Cards can still be accepted even if the printing has significantly deteriorated.

### MEDIUM - Card Functionality/Exposure

-  Average exposure to sunlight, finger oils, and transaction contact (such as a mag stripe or smart card reader).
-  May be carried on a person, but stored in a protected environment, such as a wallet.
-  Used occasionally (weekly).
-  Cards can still be accepted even if some of the printing has deteriorated.

### HIGH - Card Functionality/Exposure

-  Frequent contact with transaction terminals or regularly exposed to finger oils, sunlight, or abrasion from items stored nearby (such as coins or keys).
-  Often carried on a person and ready for immediate use or stored loosely in a pocket with coins, keys, or other items.
-  Used frequently (daily).
-  The need for the personalized card print detail is a critical factor for authentication.

## A closer look at card lifespan

To get an idea of the average lifespan for your card program, you need to consider the typical usage, the level of required functionality for transaction capability, and exposure levels that your card will face on a regular basis. We recommend considering all of the elements that impact your card program and selecting the appropriate level of protection based on your specific needs.

Based on the types of usage and exposure a card may experience, the chart on page three can help you determine the durability options that best suit your card program.





For more information

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## ABOUT ENTRUST CORPORATION

Entrust keeps the world moving safely by enabling trusted identities, payments, and data protection. Today more than ever, people demand seamless, secure experiences, whether they're crossing borders, making a purchase, accessing e-government services, or logging into corporate networks. Entrust offers an unmatched breadth of digital security and credential issuance solutions at the very heart of all these interactions. With more than 2,500 colleagues, a network of global partners, and customers in over 150 countries, it's no wonder the world's most entrusted organizations trust us.

Learn more at  
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