



DUZA® CHEM-FLEX

TECHNICAL LEAFLET

preliminary



DUZA® CHEM-FLEX coating systems are zero- and low VOC two-pack hard tough flex coating systems, based on the latest low molecular hybrid technologies.

Many coatings show after aging (hair)cracking problems due a combination of stress, impact and continuous cure.

In a conventional coating system flexibility and chemical resistance are linked to each other. Low crosslinking density gives high flexibility but lower chemical resistance. High crosslinking density gives high chemical resistance but brittleness of the system.



Combining low molecular and hybrid technologies within one molecule enabled us to break this deadlock. Because the small particles are tightly close to each other, the openings in between are too small for getting attacked. Despite crosslinking density is high, the particles self-adapt to the forces developed during impact or bending to reduce the stress that builds up, preventing cracks.



DUZA GROUP B.V. has over 12 years of experience in low molecular technology which has led to some unique tailor-made products for marine and industry.

Unique because a.o.:

- not existing elsewhere
- low VOC = zero to 1% solvent content
- toughness combined with high flexibility combined with high chemical resistance
- money and environment saving



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DUZA[®] CHEM-FLEX for TANK

TANK INSIDE

DUZA[®] CHEM-FLEX AC 117 tank liner has been extensively tested and approved on resistance to HCL 37% and is suitable for chlorine containing liquid products after testing.

- DTM without blasting/reversible
- high flexibility and impact-resistance
- antifouling and anti-icing properties / easy-to-clean
- non-toxic / non-volatile content > 99 %
- both thermal- and electrical conductive
- high temp. resistance
- general presentation: <https://youtu.be/reORgRXsqY4>
- easy application / heavy impact test: <https://youtu.be/XaWUfrXSoUc>



TANK OUTSIDE

(for inside use some chemical resistance tests are promising / but not yet finalized)

DUZA[®] SEAL is to obtain extended coating system lifespan (theoretically 25+ years) and superior gloss-/colour retention and easy-to-clean anti-fouling properties.

- presentations easy application by wiping
STEEL: <https://youtu.be/sygExaNru7w>
FRP: <https://youtu.be/O6-65mEmAXo>

Precautions

DUZA[®] CHEM-FLEX coated tanks have to be treated with care, while certain precautions to avoid damaging will have to be made.

Avoid any contact between DUZA[®] CHEM-FLEX coated tanks and chemicals (transport and/or cleaning) not being tested and non-approved.

Although DUZA[®] CHEM-FLEX coating systems are tough with high impact resistance but they can be mechanically damaged. Avoid cutting with sharp items (cleaning nozzles, etc.) and high point load.



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